

	05	.TITLE "OSNFV601"
0000	10	*= \$F000
F000 D003	15	BNE NLR
F002 AE7F04	20	LDX \$047F
F005 8E8A02	25 NLR	STX \$028A
F008 4CD6EF	30	JMP \$EFD6
F00B C63F	35 ATE0F	DEC \$3F
F00D A088	40 ISE0F	LDY #\$88
F00F 60	45	RTS
F010 A63D	50 PBYTE	LDX \$3D
F012 9D0004	55	STA \$0400,X
F015 E63D	60	INC \$3D
F017 A001	65	LDY #1
F019 E07F	70	CPX #127
F01B F001	75	BEQ *+3
F01D 60	80	RTS
F01E A9FC	85	LDA #\$FC
F020 20D2F0	90	JSR WSIO5B
F023 A900	95	LDA #0
F025 853D	0100	STA \$3D
F027 60	0105	RTS
F028 A001	0110	STATU LDY #1
F02A 60	0115	RTS
F02B AD8902	0120	CLOSEC LDA \$0289
F02E 3008	0125	BMI CLWRT
F030 A001	0130	LDY #1
F032 A93C	0135	FCAX LDA #\$3C
F034 8D02D3	0140	STA \$D302
F037 60	0145	RTS
F038 A63D	0150	CLWRT LDX \$3D
F03A F00A	0155	BEQ WTLR
F03C 8E7F04	0160	STX \$047F
F03F A9FA	0165	LDA #\$FA
F041 20D2F0	0170	JSR WSIO5B
F044 30EC	0175	BMI FCAX
F046 A27F	0180	WTLR LDX #127
F048 A900	0185	LDA #0
F04A 9D0004	0190	ZTBUF STA \$0400,X
F04D CA	0195	DEX
F04E 10FA	0200	BPL ZTBUF
F050 A9FE	0205	LDA #\$FE
F052 20D2F0	0210	JSR WSIO5B
F055 4C32F0	0215	JMP FCAX
F058 8540	0220	BEEP STA \$40
F05A A514	0225	BEEP1 LDA \$14
F05C 18	0230	CLC
F05D 691E	0235	ADC #30
F05F AA	0240	TAX
F060 A9FF	0245	WFL LDA #\$FF
F062 8D1FD0	0250	STA \$D01F
F065 A900	0255	LDA #0
F067 A0F0	0260	LDY #\$F0
F069 88	0265	DEY
F06A D0FD	0270	BNE *-1
F06C 8D1FD0	0275	STA \$D01F
F06F A0F0	0280	LDY #\$F0
F071 88	0285	DEY
F072 D0FD	0290	BNE *-1
F074 E414	0295	CPX \$14
F076 D0E8	0300	BNE WFL
F078 C640	0305	DEC \$40

F07A	F00B	0310	BEQ WFAK
F07C	8A	0315	TXA
F07D	1B	0320	CLC
F07E	690A	0325	ADC #10
F080	AA	0330	TAX
F081	E414	0335	CPX \$14
F083	D0FC	0340	BNE *-2
F085	F0D3	0345	BEQ BEEP1
F087	208CF0	0350	WFAK JSR WFAK1
F08A	98	0355	TYA
F08B	60	0360	RTS
F08C	AD25E4	0365	WFAK1 LDA \$E425
F08F	48	0370	PHA
F090	AD24E4	0375	LDA \$E424
F093	48	0380	PHA
F094	60	0385	RTS
F095	8D0203	0390	SI0SB STA \$0302
F098	A900	0395	LDA #0
F09A	8D0903	0400	STA \$0309
F09D	A983	0405	LDA #131
F09F	8D0803	0410	STA \$0308
F0A2	A903	0415	LDA #3
F0A4	8D0503	0420	STA \$0305
F0A7	A9FD	0425	LDA ##FD
F0A9	8D0403	0430	STA \$0304
F0AC	A960	0435	CS10 LDA ##60
F0AE	8D0003	0440	STA \$0300
F0B1	A900	0445	LDA #0
F0B3	8D0103	0450	STA \$0301
F0B6	A923	0455	LDA #35
F0B8	8D0603	0460	STA \$0306
F0BB	AD0203	0465	LDA \$0302
F0BE	A040	0470	LDY ##40
F0C0	C952	0475	CMP ##52
F0C2	F002	0480	BEQ *+4
F0C4	A080	0485	LDY ##80
F0C6	8C0303	0490	STY \$0303
F0C9	A53E	0495	LDA \$3E
F0CB	8D0B03	0500	STA \$030B
F0CE	2059E4	0505	JSR \$E459
F0D1	60	0510	RTS
F0D2	8DFF03	0515	WSI0SB STA \$03FF
F0D5	A955	0520	LDA ##55
F0D7	8DFD03	0525	STA \$03FD
F0DA	8DFE03	0530	STA \$03FE
F0DD	A957	0535	LDA ##57
F0DF	2095F0	0540	JSR SI0SB
F0E2	60	0545	RTS
F0E3	50	0550	TBLEN .BYTE 'P '
F0E4	30E4	0555	.BYTE \$30,\$E4
F0E6	43	0560	.BYTE 'C '
F0E7	40E4	0565	.BYTE \$40,\$E4
F0E9	45	0570	.BYTE 'E '
F0EA	00E4	0575	.BYTE \$00,\$E4
F0EC	53	0580	.BYTE 'S '
F0ED	10E4	0585	.BYTE \$10,\$E4
F0EF	4B	0590	.BYTE 'K '
F0F0	20E4	0595	.BYTE \$20,\$E4
	=000E	0600	TBLLEN = 14
F0F2	A23F	0605	CLICK LDX ##3F
F0F4	8E1FD0	0610	CLICK1 STX \$D01F

F0F7 BE0AD4	0615	STX \$D40A
F0FA CA	0620	DEX
F0FB 10F7	0625	BPL CLICK1
F0FD 60	0630	RTS
F0FE A900	0635	COLCR LDA #0
F100 A67B	0640	LDX \$7B
F102 D004	0645	BNE COLCR1
F104 A657	0650	LDX \$57
F106 D002	0655	BNE COLCR2
F108 A552	0660	COLCR1 LDA \$52
F10A 8555	0665	COLCR2 STA \$55
F10C 60	0670	RTS
F10D 424F4F54	0675	DERR5 .BYTE "BOOT ERROR", \$9B
F111 20455252		
F115 4F529B		
=00F1	0680	DERRH = DERR5/256
=000D	0685	DERRL = DERR5&255
F118 453A9B	0690	OPNEDT .BYTE "E:", \$9B
=00F1	0695	OPNH = OPNEDT/256
=0018	0700	OPNL = OPNEDT&255
F11B 7B	0705	RESET SEI
F11C AD4402	0710	LDA \$0244
F11F D004	0715	BNE PWRUP
F121 A9FF	0720	LDA #\$FF
F123 D003	0725	BNE PWRUP1
F125 7B	0730	PWRUP SEI
F126 A900	0735	LDA #0
F128 8508	0740	PWRUP1 STA \$08
F12A DB	0745	CLD
F12B A2FF	0750	LDX #\$FF
F12D 9A	0755	TXS
F12E 203FF2	0760	JSR SPECL
F131 2077F2	0765	JSR HARDI
F134 A508	0770	LDA \$08
F136 D028	0775	BNE ZOSRAM
F138 A900	0780	ZERORM LDA #0
F13A A008	0785	LDY #8
F13C 8504	0790	STA \$04
F13E 8505	0795	STA \$05
F140 9104	0800	CLRRAM STA (\$04), Y
F142 CB	0805	INY
F143 C000	0810	CPY #0
F145 D0F9	0815	BNE CLRRAM
F147 E605	0820	INC \$05
F149 A605	0825	LDX \$05
F14B E406	0830	CPX \$06
F14D D0F1	0835	BNE CLRRAM
F14F AD72E4	0840	LDA \$E472
F152 850A	0845	STA \$0A
F154 AD73E4	0850	LDA \$E473
F157 850B	0855	STA \$0B
F159 A9FF	0860	LDA #\$FF
F15B 8D4402	0865	STA \$0244
F15E D013	0870	BNE ESTSCM
F160 A200	0875	ZOSRAM LDX #0
F162 8A	0880	TXA
F163 9D0002	0885	ZOSRM2 STA \$0200, X
F166 9D0003	0890	STA \$0300, X
F169 CA	0895	DEX
F16A D0F7	0900	BNE ZOSRM2
F16C A210	0905	LDX #\$10

F16E 9500	0910 ZOSRM3 STA 0,X
F170 E8	0915 INX
F171 10FB	0920 BPL ZOSRM3
F173 A902	0925 ESTSCM LDA #2
F175 8552	0930 STA \$52
F177 A927	0935 LDA #39
F179 8553	0940 STA \$53
F17B A225	0945 OPSYS LDX ##25
F17D BD80E4	0950 MOVVEC LDA \$E480,X
F180 9D0002	0955 STA \$0200,X
F183 CA	0960 DEX
F184 10F7	0965 BPL MOVVEC
F186 208AF2	0970 JSR OSRAM
F189 58	0975 CLI
F18A A20E	0980 LDX #TBLEN
F18C BDE3F0	0985 NXTENT LDA TBLENT,X
F18F 9D1A03	0990 STA \$031A,X
F192 CA	0995 DEX
F193 10F7	1000 BPL NXTENT
F195 A200	1005 LDX #0
F197 8607	1010 STX \$07
F199 8606	1015 STX \$06
F19B AEE402	1020 LDX \$02E4
F19E E090	1025 CPX ##90
F1A0 B00A	1030 BCS ENDBCK
F1A2 ADFC9F	1035 LDA \$9FFC
F1A5 D005	1040 BNE ENDBCK
F1A7 E607	1045 INC \$07
F1A9 20D8EC	1050 JSR \$ECDB ;CHK CART
F1AC AEE402	1055 ENDBCK LDX \$02E4
F1AF E0B0	1060 CPX ##B0
F1B1 B00A	1065 BCS ENDACK
F1B3 AEFCBF	1070 LDX \$BFFC
F1B6 D005	1075 BNE ENDACK
F1B8 E606	1080 INC \$06
F1BA 20E2EC	1085 JSR \$ECE2
F1BD A903	1090 ENDACK LDA #3
F1BF A200	1095 LDX #0
F1C1 9D4203	1100 STA \$0342,X
F1C4 A918	1105 LDA #0PNL
F1C6 9D4403	1110 STA \$0344,X
F1C9 A9F1	1115 LDA #0PNH
F1CB 9D4503	1120 STA \$0345,X
F1CE A90C	1125 LDA #\$0C
F1D0 9D4A03	1130 STA \$034A,X
F1D3 2056E4	1135 JSR \$E456
F1D6 1003	1140 BPL SCRNOK
F1D8 4C25F1	1145 JMP PWRUP
F1DB E8	1150 SCRNOK INX
F1DC D0FD	1155 BNE SCRNOK
F1DE C8	1160 INY
F1DF 10FA	1165 BPL SCRNOK
F1E1 209EF3	1170 JSR CSBOOT
F1E4 A506	1175 LDA \$06
F1E6 0507	1180 ORA \$07
F1E8 F012	1185 BEQ NOCART
F1EA A506	1190 LDA \$06
F1EC F003	1195 BEQ NOA1
F1EE ADFDBF	1200 LDA \$BFFD
F1F1 A607	1205 NOA1 LDX \$07
F1F3 F003	1210 BEQ NOB1

F1F5 0DFD9F	1215	ORA \$9FFD
F1F8 20BBEC	1220	NOB1 JSR \$ECBB
F1FB EA	1225	NOP
F1FC 20CFF2	1230	NOCART JSR BOOT
F1FF A900	1235	NOBOOT LDA #0
F201 8D4402	1240	STA \$0244
F204 A506	1245	LDA \$06
F206 F00A	1250	BEG NOA2
F208 ADFDBF	1255	LDA \$BFFD
F20B 2904	1260	AND #4
F20D F003	1265	BEG NOA2
F20F 6CFABF	1270	JMP (\$BFFA)
F212 A507	1275	NOA2 LDA \$07
F214 F00A	1280	BEG NOCAR2
F216 ADFD9F	1285	LDA \$9FFD
F219 2904	1290	AND #4
F21B F0DF	1295	BEG NOCART
F21D 6CFA9F	1300	JMP (\$9FFA)
F220 6C0A00	1305	NOCAR2 JMP (\$0A)
F223 203EF6	1310	BLACKB JSR EGETCH
F226 4C23F2	1315	JMP BLACKB
F229 A22D	1320	TSTCTL LDX #45
F22B BDCEFE	1325	TSTCT1 LDA CNTRLS,X
F22E CDFB02	1330	CMP \$02FB
F231 F005	1335	BEG TSTCT2
F233 CA	1340	DEX
F234 CA	1345	DEX
F235 CA	1350	DEX
F236 10F3	1355	BPL TSTCT1
F238 60	1360	TSTCT2 RTS
F239 6CFEBF	1365	CAINI JMP (\$BFFE)
F23C 6CFE9F	1370	CBINI JMP (\$9FFE)
F23F ADFCBF	1375	SPECL LDA \$BFFC
F242 D013	1380	BNE ENSPE2
F244 EEFCCF	1385	INC \$BFFC
F247 ADFCBF	1390	LDA \$BFFC
F24A D008	1395	BNE ENSPEC
F24C ADFDBF	1400	LDA \$BFFD
F24F 1003	1405	BPL ENSPEC
F251 20B0EC	1410	JSR \$ECB0
F254 CEFCBF	1415	ENSPEC DEC \$BFFC
F257 A000	1420	ENSPE2 LDY #0
F259 8405	1425	STY \$05
F25B A910	1430	LDA #\$10
F25D 8506	1435	STA \$06
F25F B105	1440	HOWMCH LDA (\$05),Y
F261 49FF	1445	EOR #\$FF
F263 9105	1450	STA (\$05),Y
F265 D105	1455	CMP (\$05),Y
F267 D00D	1460	BNE ENDRAM
F269 49FF	1465	EOR #\$FF
F26B 9105	1470	STA (\$05),Y
F26D A506	1475	LDA \$06
F26F 18	1480	CLC
F270 6910	1485	ADC #\$10
F272 8506	1490	STA \$06
F274 D0E9	1495	BNE HOWMCH
F276 60	1500	ENDRAM RTS
F277 A900	1505	HARDI LDA #0
F279 AA	1510	TAX
F27A 9D00D0	1515	CLRCHP STA \$D000,X

F27D	9D00D4	1520	STA \$D400,X
F280	9D00D2	1525	STA \$D200,X
F283	9D00D3	1530	STA \$D300,X
F286	EB	1535	INX
F287	D0F1	1540	BNE CLRCHP
F289	60	1545	RTS
F28A	C611	1550	OSRAM DEC \$11
F28C	A954	1555	LDA #\$54
F28E	8D3602	1560	STA \$0236
F291	A9E7	1565	LDA #\$E7
F293	8D3702	1570	STA \$0237
F296	A506	1575	LDA \$06
F298	8DE402	1580	STA \$02E4
F29B	8DE602	1585	STA \$02E6
F29E	A900	1590	LDA #0
F2A0	8DE502	1595	STA \$02E5
F2A3	8DE702	1600	STA \$02E7
F2A6	EA	1605	NOP
F2A7	EA	1610	NOP
F2A8	A907	1615	LDA #7
F2AA	8DE802	1620	STA \$02E8
F2AD	200CE4	1625	JSR \$E40C
F2B0	201CE4	1630	JSR \$E41C
F2B3	202CE4	1635	JSR \$E42C
F2B6	203CE4	1640	JSR \$E43C
F2B9	204CE4	1645	JSR \$E44C
F2BC	206EE4	1650	JSR \$E46E
F2BF	2065E4	1655	JSR \$E465
F2C2	206BE4	1660	JSR \$E46B
F2C5	AD1FD0	1665	LDA \$D01F
F2C8	2901	1670	AND #1
F2CA	D002	1675	BNE NOKEY
F2CC	E64A	1680	INC \$4A
F2CE	60	1685	NOKEY RTS
F2CF	A508	1690	BOOT LDA \$08
F2D1	F00A	1695	BEG NOWARM
F2D3	A509	1700	LDA \$09
F2D5	2901	1705	AND #1
F2D7	F003	1710	BEG NOINIT
F2D9	207EF3	1715	JSR DINI
F2DC	60	1720	NOINIT RTS
F2DD	A901	1725	NOWARM LDA #1
F2DF	8D0103	1730	STA \$0301
F2E2	A953	1735	LDA #\$53
F2E4	8D0203	1740	STA \$0302
F2E7	2053E4	1745	JSR \$E453
F2EA	1001	1750	BPL DOBOOT
F2EC	60	1755	RTS
F2ED	A900	1760	DOBOOT LDA #0
F2EF	8D0B03	1765	STA \$030B
F2F2	8D0403	1770	STA \$0304
F2F5	A901	1775	LDA #1
F2F7	8D0A03	1780	STA \$030A
F2FA	A904	1785	LDA #4
F2FC	8D0503	1790	STA \$0305
F2FF	EA	1795	NOP
F300	EA	1800	NOP
F301	20C0FC	1805	SECT1 JSR GETSEC
F304	100B	1810	BPL ALLSEC
F306	2081F3	1815	BADDSK JSR DSKRDE
F309	A54B	1820	LDA \$4B

F30B F0E0	1825	BEQ DOBOOT
F30D 60	1830	RTS
F30E A203	1835	ALLSEC LDX #3
F310 BD0004	1840	RDBYTE LDA \$0400,X
F313 9D4002	1845	STA \$0240,X
F316 CA	1850	DEX
F317 10F7	1855	BPL RDBYTE
F319 AD4202	1860	LDA \$0242
F31C 8504	1865	STA \$04
F31E AD4302	1870	LDA \$0243
F321 8505	1875	STA \$05
F323 AD0404	1880	LDA \$0404
F326 850C	1885	STA \$0C
F328 AD0504	1890	LDA \$0405
F32B 850D	1895	STA \$0D
F32D A07F	1900	MVBUFF LDY #\$7F
F32F B90004	1905	MVNXB LDA \$0400,Y
F332 9104	1910	STA (\$04),Y
F334 8B	1915	DEY
F335 10FB	1920	BPL MVNXB
F337 1B	1925	CLC
F338 A504	1930	LDA \$04
F33A 69B0	1935	ADC #\$80
F33C 8504	1940	STA \$04
F33E A505	1945	LDA \$05
F340 6900	1950	ADC #0
F342 8505	1955	STA \$05
F344 CE4102	1960	DEC \$0241
F347 F011	1965	BEQ ENBOOT
F349 EE0A03	1970	INC \$030A
F34C 20C0FC	1975	SECTX JSR GETSEC
F34F 10DC	1980	BPL MVBUFF
F351 20B1F3	1985	JSR DSKRDE
F354 A54B	1990	LDA \$4B
F356 D0AE	1995	BNE BADDSK
F358 F0F2	2000	BEQ SECTX
F35A A54B	2005	ENBOOT LDA \$4B
F35C F003	2010	BEQ XBOOT
F35E 20C0FC	2015	JSR GETSEC
F361 206CF3	2020	XBOOT JSR BLOAD
F364 B0A0	2025	BCS BADDSK
F366 207EF3	2030	JSR DINI
F369 E609	2035	INC \$09
F36B 60	2040	RTS
F36C 1B	2045	BLOAD CLC
F36D AD4202	2050	LDA \$0242
F370 6906	2055	ADC #6
F372 8504	2060	STA \$04
F374 AD4302	2065	LDA \$0243
F377 6900	2070	ADC #0
F379 8505	2075	STA \$05
F37B 6C0400	2080	JMP (\$04)
F37E 6C0C00	2085	DINI JMP (\$0C)
F381 A20D	2090	DSKRDE LDX #DERRL
F383 A0F1	2095	LDY #DERRH
F385 8A	2100	PUTLIN TXA
F386 A200	2105	LDX #0
F388 9D4403	2110	STA \$0344,X
F38B 9B	2115	TYA
F38C 9D4503	2120	STA \$0345,X
F38F A909	2125	LDA #9

F391	9D4203	2130	STA \$0342,X	
F394	A9FF	2135	LDA #\$FF	
F396	9D4803	2140	STA \$0348,X	
F399	4C56E4	2145	JMP \$E456	
F39C	EA	2150	NOP	
F39D	EA	2155	NOP	
F39E	A508	2160	CSBOOT LDA \$08	
F3A0	F00A	2165	BEQ CSBOT2	
F3A2	A509	2170	LDA \$09	
F3A4	2902	2175	AND #2	
F3A6	F003	2180	BEQ NOCSB2	
F3A8	20CDF3	2185	JSR CINI	
F3AB	60	2190	NOCSB2 RTS	
F3AC	A54A	2195	CSBOT2 LDA \$4A	
F3AE	F01C	2200	BEQ NOCSBT	
F3B0	A980	2205	LDA #\$80	
F3B2	853E	2210	STA \$3E	
F3B4	E64B	2215	INC \$4B	
F3B6	207DE4	2220	JSR \$E47D	
F3B9	2001F3	2225	JSR SECT1	
F3BC	A900	2230	LDA #0	
F3BE	854B	2235	STA \$4B	
F3C0	854A	2240	STA \$4A	
F3C2	0609	2245	ASL \$09	
F3C4	A50C	2250	LDA \$0C	
F3C6	8502	2255	STA \$02	
F3C8	A50D	2260	LDA \$0D	
F3CA	8503	2265	STA \$03	
F3CC	60	2270	NOCSBT RTS	
F3CD	6C0200	2275	CINI JMP (\$02)	
F3D0	A9FF	2280	PWRONA LDA #\$FF	
F3D2	8DFC02	2285	STA \$02FC	
F3D5	ADE602	2290	LDA \$02E6	
F3D8	29F0	2295	AND #\$F0	
F3DA	856A	2300	STA \$6A	
F3DC	A940	2305	LDA #\$40	
F3DE	8DBE02	2310	STA \$02BE	
F3E1	60	2315	RTS	
F3E2	A205	2320	DOPENO LDX #5	
F3E4	BDC8FE	2325	DOPENB LDA COLRTB-1,X	
F3E7	9DC302	2330	STA \$02C3,X	
F3EA	CA	2335	DEX	
F3EB	D0F7	2340	BNE DOPENB	
F3ED	8664	2345	STX \$64	
F3EF	A46A	2350	LDY \$6A	
F3F1	88	2355	DEY	
F3F2	8C9502	2360	STY \$0295	
F3F5	60	2365	RTS	
F3F6	A52B	2370	DOPEN LDA \$2B ; OLD DOPEN	
F3F8	290F	2375	AND #\$0F	
F3FA	D008	2380	BNE OPNCOM	
F3FC	A52A	2385	EOPEN LDA \$2A	
F3FE	290F	2390	AND #\$0F	
F400	852A	2395	STA \$2A	
F402	A900	2400	LDA #0	
F404	8557	2405	OPNCOM STA \$57	
F406	20E2F3	2410	JSR DOPENO	
F409	8E9302	2415	STX \$0293	
F40C	867B	2420	STX \$7B	
F40E	8EF002	2425	STX \$02F0	
F411	A9E0	2430	LDA #\$E0	

F413	8DF402	2435	STA \$02F4
F416	A902	2440	LDA #2
F418	8DF302	2445	STA \$02F3
F41B	8D2F02	2450	STA \$022F
F41E	A901	2455	LDA #1
F420	854C	2460	STA \$4C
F422	A00E	2465	LDY #14
F424	99A302	2470	CLRTBS STA \$02A3,Y
F427	88	2475	DEY
F428	10FA	2480	BPL CLRTBS
F42A	A9C0	2485	LDA #\$C0
F42C	0510	2490	ORA \$10
F42E	8510	2495	STA \$10
F430	8D0ED2	2500	STA \$D20E
F433	A960	2505	LDA #\$60
F435	8D9402	2510	STA \$0294
F438	A657	2515	LDX \$57
F43A	BD55FE	2520	LDA ANCONV,X
F43D	D004	2525	BNE DOPENA
F43F	A991	2530	OPNERR LDA #\$91
F441	854C	2535	STA \$4C
F443	8551	2540	DOPENA STA \$51
F445	A56A	2545	LDA \$6A
F447	8565	2550	STA \$65
F449	BC25FE	2555	LDY ALOCAT,X
F44C	A928	2560	DOPEN1 LDA #40
F44E	2021F9	2565	JSR DBSUB
F451	88	2570	DEY
F452	D0F8	2575	BNE DOPEN1
F454	AD6F02	2580	LDA \$026F
F457	293F	2585	AND #\$3F
F459	8567	2590	STA \$67
F45B	A8	2595	TAY
F45C	E008	2600	CPX #8
F45E	901F	2605	BCC NOT8
F460	E00F	2610	CPX #15
F462	F00D	2615	BEQ MODE15
F464	E00C	2620	CPX #12
F466	B017	2625	BCS NOT8
F468	8A	2630	TXA
F469	6A	2635	ROR A
F46A	6A	2640	ROR A
F46B	6A	2645	ROR A
F46C	29C0	2650	AND #\$C0
F46E	0567	2655	ORA \$67
F470	A8	2660	TAY
F471	A910	2665	MODE15 LDA #16
F473	2021F9	2670	JSR DBSUB
F476	E00B	2675	CPX #11
F478	D005	2680	BNE NOT8
F47A	A906	2685	LDA #6
F47C	8DC802	2690	STA \$02C8
F47F	8C6F02	2695	NOT8 STY \$026F
F482	A564	2700	LDA \$64
F484	8558	2705	STA \$58
F486	A565	2710	LDA \$65
F488	8559	2715	STA \$59
F48A	AD0BD4	2720	VBWAIT LDA \$D40B
F48D	C97A	2725	CMP #\$7A
F48F	D0F9	2730	BNE VBWAIT
F491	201FF9	2735	JSR DBDEC

F494	BD65FE	2740	LDA PAGETB, X
F497	F006	2745	BEQ NOMOD
F499	A9FF	2750	LDA #\$FF
F49B	8564	2755	STA \$64
F49D	C665	2760	DEC \$65
F49F	A564	2765	NOMOD LDA \$64
F4A1	8568	2770	STA \$68
F4A3	A565	2775	LDA \$65
F4A5	8569	2780	STA \$69
F4A7	2013F9	2785	JSR DBDDEC
F4AA	A941	2790	LDA #\$41
F4AC	2017F9	2795	JSR STORE
F4AF	8666	2800	STX \$66
F4B1	A918	2805	LDA #24
F4B3	8DBF02	2810	STA \$02BF
F4B6	A557	2815	LDA \$57
F4B8	C90C	2820	CMP #12
F4BA	B004	2825	BCS MODE12
F4BC	C909	2830	CMP #9
F4BE	B02D	2835	BCS NOTMXD
F4C0	A52A	2840	MODE12 LDA \$2A
F4C2	2910	2845	AND #\$10
F4C4	F027	2850	BEQ NOTMXD
F4C6	A904	2855	LDA #4
F4C8	8DBF02	2860	STA \$02BF
F4CB	A202	2865	LDX #2
F4CD	A902	2870	DOPEN2 LDA #2
F4CF	2017F9	2875	JSR STORE
F4D2	CA	2880	DEX
F4D3	10F8	2885	BPL DOPEN2
F4D5	A46A	2890	LDY \$6A
F4D7	88	2895	DEY
F4D8	98	2900	TYA
F4D9	2017F9	2905	JSR STORE
F4DC	A960	2910	LDA #\$60
F4DE	2017F9	2915	JSR STORE
F4E1	A942	2920	LDA #\$42
F4E3	2017F9	2925	JSR STORE
F4E6	18	2930	CLC
F4E7	A910	2935	LDA #MXDMDE-NUMDLE
F4E9	6566	2940	ADC \$66
F4EB	8566	2945	STA \$66
F4ED	A466	2950	NOTMXD LDY \$66
F4EF	BE35FE	2955	LDX NUMDLE, Y
F4F2	A551	2960	DOPEN3 LDA \$51
F4F4	2017F9	2965	JSR STORE
F4F7	CA	2970	DEX
F4F8	D0F8	2975	BNE DOPEN3
F4FA	A557	2980	LDA \$57
F4FC	C908	2985	CMP #8
F4FE	9026	2990	BCC DOPEN5
F500	C90F	2995	CMP #15
F502	F004	3000	BEQ MDE15
F504	C90C	3005	CMP #12
F506	B01E	3010	BCS DOPEN5
F508	A25D	3015	MDE15 LDX #93
F50A	A56A	3020	LDA \$6A
F50C	38	3025	SEC
F50D	E910	3030	SBC #\$10
F50F	2017F9	3035	JSR STORE
F512	A900	3040	LDA #0

F514	2017F9	3045	JSR STORE	
F517	A551	3050	LDA \$51	
F519	0940	3055	ORA ##40	
F51B	2017F9	3060	JSR STORE	
F51E	A551	3065	DOPEN4 LDA \$51	
F520	2017F9	3070	JSR STORE	
F523	CA	3075	DEX	
F524	D0F8	3080	BNE DOPEN4	
F526	A559	3085	DOPEN5 LDA \$59	
F528	2017F9	3090	JSR STORE	
F52B	A558	3095	LDA \$58	
F52D	2017F9	3100	JSR STORE	
F530	A551	3105	LDA \$51	
F532	0940	3110	ORA ##40	
F534	A203	3115	LDX #3	
F536	2017F9	3120	DOPEN6 JSR STORE	
F539	A970	3125	LDA ##70	
F53B	CA	3130	DEX	
F53C	D0F8	3135	BNE DOPEN6	
F53E	A564	3140	LDA \$64	
F540	8D3002	3145	STA \$0230	
F543	A565	3150	LDA \$65	
F545	8D3102	3155	STA \$0231	
F548	A970	3160	LDA ##70	
F54A	2017F9	3165	JSR STORE	
F54D	A564	3170	LDA \$64	
F54F	8DE502	3175	STA \$02E5	
F552	A565	3180	LDA \$65	
F554	8DE602	3185	STA \$02E6	
F557	A568	3190	LDA \$68	
F559	8564	3195	STA \$64	
F55B	A569	3200	LDA \$69	
F55D	8565	3205	STA \$65	
F55F	AD3102	3210	LDA \$0231	
F562	2017F9	3215	JSR STORE	
F565	AD3002	3220	LDA \$0230	
F568	2017F9	3225	JSR STORE	
F56B	A54C	3230	LDA \$4C	
F56D	1007	3235	BPL DOPEN9	
F56F	48	3240	PHA	
F570	20FCF3	3245	JSR EOPEN	
F573	68	3250	PLA	
F574	A8	3255	TAY	
F575	60	3260	RTS	
F576	A52A	3265	DOPEN9 LDA \$2A	
F578	2920	3270	AND ##20	
F57A	D00B	3275	BNE DOPEN7	
F57C	20B9F7	3280	JSR CLRSCR	
F57F	8D9002	3285	STA \$0290	
F582	A552	3290	LDA \$52	
F584	8D9102	3295	STA \$0291	
F587	A922	3300	DOPEN7 LDA ##22	
F589	0D2F02	3305	ORA \$022F	
F58C	8D2F02	3310	STA \$022F	
F58F	4C21F6	3315	JMP RETUR2	
F592	EA	3320	NOP	; FILLER
F593	2096FA	3325	GETCH JSR RANGE	
F596	20A2F5	3330	JSR GETPLT	
F599	2032FB	3335	JSR INATAC	
F59C	20D4F9	3340	JSR INCRSB	
F59F	4C34F6	3345	JMP RETUR1	

F5A2	2047F9	3350	GETPLT JSR CONVRT
F5A5	B164	3355	LDA (\$64),Y
F5A7	2DA002	3360	AND \$02A0
F5AA	466F	3365	SHIFTD LSR \$6F
F5AC	B003	3370	BCS SHIFT1
F5AE	4A	3375	LSR A
F5AF	10F9	3380	BPL SHIFTD
F5B1	8DFA02	3385	SHIFT1 STA \$02FA
F5B4	C900	3390	CMP #0
F5B6	60	3395	RTS
F5B7	8DFB02	3400	OUTCH STA \$02FB
F5BA	2096FA	3405	JSR RANGE
F5BD	ADFB02	3410	OUTCHA LDA \$02FB
F5C0	C97D	3415	CMP #\$7D
F5C2	D006	3420	BNE OUTCHE
F5C4	20B9F7	3425	JSR CLRSCR
F5C7	4C21F6	3430	JMP RETUR2
F5CA	ADFB02	3435	OUTCHE LDA \$02FB
F5CD	C99B	3440	CMP #\$9B
F5CF	D006	3445	BNE OUTCHB
F5D1	2030FA	3450	JSR DOCRWS
F5D4	4C21F6	3455	JMP RETUR2
F5D7	20E0F5	3460	OUTCHB JSR OUTPLT
F5DA	20DBF9	3465	JSR INCRSR
F5DD	4C21F6	3470	JMP RETUR2
F5E0	ADFF02	3475	OUTPLT LDA \$02FF
F5E3	D0FB	3480	BNE OUTPLT
F5E5	A202	3485	LDX #2
F5E7	B554	3490	CRLOOP LDA \$54,X
F5E9	955A	3495	STA \$5A,X
F5EB	CA	3500	DEX
F5EC	10F9	3505	BPL CRLOOP
F5EE	ADFB02	3510	LDA \$02FB
F5F1	A8	3515	TAY
F5F2	2A	3520	ROL A
F5F3	2A	3525	ROL A
F5F4	2A	3530	ROL A
F5F5	2A	3535	ROL A
F5F6	2903	3540	AND #3
F5F8	AA	3545	TAX
F5F9	98	3550	TYA
F5FA	299F	3555	AND #\$9F
F5FC	1DFOFF	3560	DRA ATAINI,X
F5FF	8DFA02	3565	OUTCH2 STA \$02FA
F602	2047F9	3570	JSR CONVRT
F605	ADFA02	3575	LDA \$02FA
F608	466F	3580	SHIFTU LSR \$6F
F60A	B004	3585	BCS SHIFT2
F60C	0A	3590	ASL A
F60D	4C0BF6	3595	JMP SHIFTU
F610	2DA002	3600	SHIFT2 AND \$02A0
F613	8550	3605	STA \$50
F615	ADA002	3610	LDA \$02A0
F618	49FF	3615	EOR #\$FF
F61A	3164	3620	AND (\$64),Y
F61C	0550	3625	DRA \$50
F61E	9164	3630	STA (\$64),Y
F620	60	3635	RTS
F621	20A2F5	3640	RETUR2 JSR GETPLT
F624	855D	3645	STA \$5D
F626	A657	3650	LDX \$57

F62B	D00A	3655	BNE RETUR1
F62A	AEF002	3660	LDX \$02F0
F62D	D005	3665	BNE RETUR1
F62F	4980	3670	EOR #\$80
F631	20FFF5	3675	JSR OUTCH2
F634	A44C	3680	RETUR1 LDY \$4C
F636	A901	3685	LDA #1
F638	854C	3690	STA \$4C
F63A	ADFB02	3695	LDA \$02FB
F63D	60	3700	NOFUNC RTS
F63E	209BFC	3705	EGETCH JSR SWAP
F641	2088FA	3710	JSR ERANGE
F644	A56B	3715	LDA \$6B
F646	D034	3720	BNE EGETC3
F648	A554	3725	LDA \$54
F64A	856C	3730	STA \$6C
F64C	A555	3735	LDA \$55
F64E	856D	3740	STA \$6D
F650	20E2F6	3745	EGETC1 JSR KGETCH
F653	844C	3750	STY \$4C
F655	ADFB02	3755	LDA \$02FB
F658	C99B	3760	CMP #\$9B
F65A	F012	3765	BEQ EGETC2
F65C	20ADF6	3770	JSR DOSS
F65F	209BFC	3775	JSR SWAP
F662	A563	3780	LDA \$63
F664	C971	3785	CMP #113
F666	D003	3790	BNE EGETC6
F668	200AF9	3795	JSR BELL
F66B	4C50F6	3800	EGETC6 JMP EGETC1
F66E	20E4FA	3805	EGETC2 JSR OFFCRS
F671	20F8FB	3810	JSR DOBUFC
F674	A56C	3815	LDA \$6C
F676	8554	3820	STA \$54
F678	A56D	3825	LDA \$6D
F67A	8555	3830	STA \$55
F67C	A56B	3835	EGETC3 LDA \$6B
F67E	F011	3840	BEQ EGETC5
F680	C66B	3845	EGETC7 DEC \$6B
F682	F00D	3850	BEQ EGETC5
F684	A54C	3855	LDA \$4C
F686	30F8	3860	BMI EGETC7
F688	2093F5	3865	JSR GETCH
F68B	8DFB02	3870	STA \$02FB
F68E	4C9BFC	3875	JMP SWAP
F691	2030FA	3880	EGETC5 JSR DOCRWS
F694	A99B	3885	LDA #\$9B
F696	8DFB02	3890	STA \$02FB
F699	2021F6	3895	JSR RETUR2
F69C	844C	3900	STY \$4C
F69E	4C9BFC	3905	JMP SWAP
F6A1	6C6400	3910	JSRIND JMP (\$64)
F6A4	8DFB02	3915	EOUTCH STA \$02FB
F6A7	209BFC	3920	JSR SWAP
F6AA	2088FA	3925	JSR ERANGE
F6AD	20E4FA	3930	DOSS JSR OFFCRS
F6B0	2029F2	3935	JSR TSTCTL
F6B3	F009	3940	BEQ EOUTC5
F6B5	0EA202	3945	EOUTC6 ASL \$02A2
F6B8	20CAF5	3950	JSR OUTCHE
F6BB	4C9BFC	3955	ERETN JMP SWAP

F6BE	ADFE02	3960	EOUTC5 LDA \$02FE
F6C1	0DA202	3965	ORA \$02A2
F6C4	D0EF	3970	BNE EOUTC6
F6C6	0EA202	3975	ASL \$02A2
F6C9	EB	3980	INX
F6CA	BDCEFE	3985	LDA CNTRLS, X
F6CD	8564	3990	STA \$64
F6CF	BDCFFE	3995	LDA CNTRLS+1, X
F6D2	8565	4000	STA \$65
F6D4	20A1F6	4005	JSR JSRIND
F6D7	2021F6	4010	JSR RETUR2
F6DA	4C9BFC	4015	JMP SWAP
F6DD	A9FF	4020	KGETC2 LDA #\$FF
F6DF	8DFC02	4025	STA \$02FC
F6E2	A52A	4030	KGETCH LDA \$2A
F6E4	4A	4035	LSR A
F6E5	B062	4040	BCS GETOUT
F6E7	A980	4045	LDA #\$80
F6E9	A611	4050	LDX \$11
F6EB	F058	4055	BEQ K7
F6ED	ADFC02	4060	LDA \$02FC
F6F0	C9FF	4065	CMP #\$FF
F6F2	F0EE	4070	BEQ KGETCH
F6F4	857C	4075	STA \$7C
F6F6	A2FF	4080	LDX #\$FF
F6F8	8EFC02	4085	STX \$02FC
F6FB	20F2F0	4090	JSR CLICK
F6FE	AA	4095	KGETC3 TAX
F6FF	E0C0	4100	CPX #\$C0
F701	9002	4105	BCC ASCC01
F703	A203	4110	LDX #3
F705	BDFEFE	4115	ASCC01 LDA ATASCI, X
F708	8DFB02	4120	STA \$02FB
F70B	C980	4125	CMP #\$80
F70D	F0CE	4130	BEQ KGETC2
F70F	C981	4135	CMP #\$81
F711	D00B	4140	BNE KGETC1
F713	ADB602	4145	LDA \$02B6
F716	4980	4150	EOR #\$80
F718	8DB602	4155	STA \$02B6
F71B	4CDDF6	4160	JMP KGETC2
F71E	C982	4165	KGETC1 CMP #\$82
F720	D007	4170	BNE K1
F722	A900	4175	LDA #0
F724	8DBE02	4180	STA \$02BE
F727	F0B4	4185	BEQ KGETC2
F729	C983	4190	K1 CMP #\$83
F72B	D007	4195	BNE K2
F72D	A940	4200	LDA #\$40
F72F	8DBE02	4205	STA \$02BE
F732	D0A9	4210	BNE KGETC2
F734	C984	4215	K2 CMP #\$84
F736	D007	4220	BNE K3
F738	A980	4225	LDA #\$80
F73A	8DBE02	4230	STA \$02BE
F73D	D09E	4235	BNE KGETC2
F73F	C985	4240	K3 CMP #\$85
F741	D00A	4245	BNE K6
F743	A988	4250	LDA #\$88
F745	854C	4255	K7 STA \$4C
F747	8511	4260	STA \$11

F749 A99B	4265 GETOUT LDA ##9B
F74B D026	4270 BNE K8
F74D A57C	4275 K6 LDA \$7C
F74F C940	4280 CMP ##40
F751 B015	4285 BCS K5
F753 ADFB02	4290 LDA \$02FB
F756 C961	4295 CMP ##61
F758 900E	4300 BCC K5
F75A C97B	4305 CMP ##7B
F75C B00A	4310 BCS K5
F75E ADBE02	4315 LDA \$02BE
F761 F005	4320 BEQ K5
F763 057C	4325 ORA \$7C
F765 4CFEF6	4330 JMP KGETC3
F768 2029F2	4335 K5 JSR TSTCTL
F76B F009	4340 BEQ K4
F76D ADFB02	4345 LDA \$02FB
F770 4DB602	4350 EOR \$02B6
F773 8DFB02	4355 K8 STA \$02FB
F776 4C34F6	4360 K4 JMP RETUR1
F779 A980	4365 ESCAPE LDA ##80
F77B 8DA202	4370 STA \$02A2
F77E 60	4375 RTS
F77F C654	4380 CRSRUP DEC \$54
F781 1006	4385 BPL COMRET
F783 AEBF02	4390 LDX \$02BF
F786 CA	4395 DEX
F787 8654	4400 UPDNCM STX \$54
F789 4C54FC	4405 COMRET JMP STRBEG
F78C E654	4410 CRSRDN INC \$54
F78E A554	4415 LDA \$54
F790 CDBF02	4420 CMP \$02BF
F793 90F4	4425 BCC COMRET
F795 A200	4430 LDX #0
F797 F0EE	4435 BEQ UPDNCM
F799 C655	4440 CRSRLF DEC \$55
F79B A555	4445 LDA \$55
F79D 3004	4450 BMI CRSRL1
F79F C552	4455 CMP \$52
F7A1 B004	4460 BCS COMRE1
F7A3 A553	4465 CRSRL1 LDA \$53
F7A5 8555	4470 LFRTCM STA \$55
F7A7 4CD5FB	4475 COMRE1 JMP DOLCOL
F7AA E655	4480 CRSRRT INC \$55
F7AC A555	4485 LDA \$55
F7AE C553	4490 CMP \$53
F7B0 90F5	4495 BCC COMRE1
F7B2 F0F3	4500 BEQ COMRE1
F7B4 A552	4505 LDA \$52
F7B6 4CA5F7	4510 JMP LFRTCM
F7B9 20D4FC	4515 CLRSCR JSR PUTMSC
F7BC A000	4520 LDY #0
F7BE 98	4525 TYA
F7BF 9164	4530 CLRSC2 STA (\$64),Y
F7C1 C8	4535 INY
F7C2 D0FB	4540 BNE CLRSC2
F7C4 E665	4545 INC \$65
F7C6 A665	4550 LDX \$65
F7C8 E46A	4555 CPX \$6A
F7CA 90F3	4560 BCC CLRSC2
F7CC A9FF	4565 LDA ##FF

F7CE 99B202	4570 CLRSC3 STA \$02B2,Y
F7D1 C8	4575 INY
F7D2 C004	4580 CPY #4
F7D4 90F8	4585 BCC CLRSC3
F7D6 20FEF0	4590 HOME JSR COLCR
F7D9 8563	4595 STA \$63
F7DB 856D	4600 STA \$6D
F7DD A900	4605 LDA #0
F7DF 8554	4610 STA \$54
F7E1 8556	4615 STA \$56
F7E3 856C	4620 STA \$6C
F7E5 60	4625 RTS
F7E6 A563	4630 BS LDA \$63
F7E8 C552	4635 CMP \$52
F7EA F021	4640 BEQ BS1
F7EC A555	4645 BSA LDA \$55
F7EE C552	4650 CMP \$52
F7F0 D003	4655 BNE BS3
F7F2 206BFC	4660 JSR DELTIM
F7F5 2099F7	4665 BS3 JSR CRSRLF
F7F8 A555	4670 LDA \$55
F7FA C553	4675 CMP \$53
F7FC D007	4680 BNE BS2
F7FE A554	4685 LDA \$54
F800 F003	4690 BEQ BS2
F802 207FF7	4695 JSR CRSRUP
F805 A920	4700 BS2 LDA #\$20
F807 8DFB02	4705 STA \$02FB
F80A 20E0F5	4710 JSR OUTPLT
F80D 4CD5FB	4715 BS1 JMP DOLCOL
F810 20AAF7	4720 TAB JSR CRSRRT
F813 A555	4725 LDA \$55
F815 C552	4730 CMP \$52
F817 D00A	4735 BNE TAB1
F819 2034FA	4740 JSR DOCR
F81C 2020FB	4745 JSR LOGGET
F81F 9002	4750 BCC TAB1
F821 B007	4755 BCS TAB2
F823 A563	4760 TAB1 LDA \$63
F825 2025FB	4765 JSR BITGET
F828 90E6	4770 BCC TAB
F82A 4CD5FB	4775 TAB2 JMP DOLCOL
F82D A563	4780 SETTAB LDA \$63
F82F 4C06FB	4785 JMP BITSET
F832 A563	4790 CLRTAB LDA \$63
F834 4C12FB	4795 JMP BITCLR
F837 2085FC	4800 INSCHR JSR PHACRS
F83A 20A2F5	4805 JSR GETPLT
F83D 857D	4810 STA \$7D
F83F A900	4815 LDA #0
F841 8DBB02	4820 STA \$02BB
F844 20FFF5	4825 INSCH4 JSR OUTCH2
F847 A563	4830 LDA \$63
F849 48	4835 PHA
F84A 20DCF9	4840 JSR INCRSA
F84D 68	4845 PLA
F84E C563	4850 CMP \$63
F850 B00C	4855 BCS INSCH3
F852 A57D	4860 INSCH1 LDA \$7D
F854 48	4865 PHA
F855 20A2F5	4870 JSR GETPLT

F858 857D	4875	STA \$7D
F85A 68	4880	PLA
F85B 4C44F8	4885	JMP INSCH4
F85E 2090FC	4890	INSCH3 JSR PLACRS
F861 CEBB02	4895	INSCH6 DEC \$02BB
F864 3004	4900	BMI INSCH5
F866 C654	4905	DEC \$54
F868 D0F7	4910	BNE INSCH6
F86A 4CD5FB	4915	INSCH5 JMP DOLCOL
F86D 2085FC	4920	DELCHR JSR PHACRS
F870 2047F9	4925	DELCH1 JSR CONVRT
F873 A564	4930	LDA \$64
F875 8568	4935	STA \$68
F877 A565	4940	LDA \$65
F879 8569	4945	STA \$69
F87B A563	4950	LDA \$63
F87D 48	4955	PHA
F87E 20D4F9	4960	JSR INCRSB
F881 68	4965	PLA
F882 C563	4970	CMP \$63
F884 B010	4975	BCS DELCH2
F886 A554	4980	LDA \$54
F888 CDBF02	4985	CMP \$02BF
F88B B009	4990	BCS DELCH2
F88D 20A2F5	4995	JSR GETPLT
F890 A000	5000	LDY #0
F892 9168	5005	STA (\$68),Y
F894 F0DA	5010	BEQ DELCH1
F896 A000	5015	DELCH2 LDY #0
F898 98	5020	TYA
F899 9168	5025	STA (\$68),Y
F89B 2060FC	5030	JSR DELTIA
F89E 2090FC	5035	JSR PLACRS
F8A1 4CD5FB	5040	JMP DOLCOL
F8A4 38	5045	INSLIN SEC
F8A5 207BFB	5050	INSLIA JSR EXTEND
F8A8 A552	5055	LDA \$52
F8AA 8555	5060	STA \$55
F8AC 2047F9	5065	JSR CONVRT
F8AF A564	5070	LDA \$64
F8B1 8568	5075	STA \$68
F8B3 18	5080	CLC
F8B4 6928	5085	ADC #40
F8B6 8566	5090	STA \$66
F8B8 A565	5095	LDA \$65
F8BA 8569	5100	STA \$69
F8BC 6900	5105	ADC #0
F8BE 8567	5110	STA \$67
F8C0 A654	5115	LDX \$54
F8C2 E017	5120	CPX #23
F8C4 F008	5125	BEQ INSLI2
F8C6 204EFB	5130	INSLI1 JSR MOVLIN
F8C9 E8	5135	INX
F8CA E017	5140	CPX #23
F8CC D0F8	5145	BNE INSLI1
F8CE 209BFB	5150	INSLI2 JSR CLRLIN
F8D1 4CD5FB	5155	JMP DOLCOL
F8D4 20D5FB	5160	DELLIN JSR DOLCOL
F8D7 A451	5165	DELLIA LDY \$51
F8D9 8454	5170	STY \$54
F8DB A454	5175	DELLIB LDY \$54

F8DD 98	5180 DELL11 TYA
F8DE 38	5185 SEC
F8DF 2023FB	5190 JSR L02GET
F8E2 08	5195 PHP
F8E3 98	5200 TYA
F8E4 18	5205 CLC
F8E5 6978	5210 ADC #120
F8E7 28	5215 PLP
F8E8 2004FB	5220 JSR BITPUT
F8EB C8	5225 INY
F8EC C018	5230 CPY #24
F8EE DOED	5235 BNE DELL11
F8F0 ADB402	5240 LDA \$02B4
F8F3 0901	5245 ORA #1
F8F5 8DB402	5250 STA \$02B4
F8F8 A552	5255 DELL12 LDA \$52
F8FA 8555	5260 STA \$55
F8FC 2047F9	5265 JSR CONVRT
F8FF 20B2FB	5270 JSR SCROL1
F902 2020FB	5275 JSR LOGGET
F905 90D4	5280 BCC DELL1B
F907 4CD5FB	5285 JMP DOLCOL
F90A A020	5290 BELL LDY ##20
F90C 20F2F0	5295 BELL1 JSR CLICK
F90F 88	5300 DEY
F910 10FA	5305 BPL BELL1
F912 60	5310 RTS
F913 A902	5315 DBDDEC LDA #2
F915 D00A	5320 BNE DBSUB
F917 A44C	5325 STORE LDY \$4C
F919 302B	5330 BMI STROK
F91B A000	5335 LDY #0
F91D 9164	5340 STORE1 STA (\$64),Y
F91F A901	5345 DBDEC LDA #1
F921 8D9E02	5350 DBSUB STA \$029E
F924 A54C	5355 LDA \$4C
F926 301E	5360 BMI STROK
F928 A564	5365 LDA \$64
F92A 38	5370 SEC
F92B ED9E02	5375 SBC \$029E
F92E 8564	5380 STA \$64
F930 B002	5385 BCS DBSUB1
F932 C665	5390 DEC \$65
F934 A50F	5395 DBSUB1 LDA \$0F
F936 C565	5400 CMP \$65
F938 900C	5405 BCC STROK
F93A D006	5410 BNE STRERR
F93C A50E	5415 LDA \$0E
F93E C564	5420 CMP \$64
F940 9004	5425 BCC STROK
F942 A993	5430 STRERR LDA ##93
F944 854C	5435 STA \$4C
F946 60	5440 STROK RTS
F947 A554	5445 CONVRT LDA \$54
F949 48	5450 PHA
F94A A555	5455 LDA \$55
F94C 48	5460 PHA
F94D A556	5465 LDA \$56
F94F 48	5470 PHA
F950 20D4FC	5475 JSR PUTMSC
F953 A554	5480 LDA \$54

F955 8566	5485	STA \$66
F957 A900	5490	LDA #0
F959 8567	5495	STA \$67
F95B A566	5500	LDA \$66
F95D 0A	5505	ASL A
F95E 2667	5510	ROL \$67
F960 8551	5515	STA \$51
F962 A467	5520	LDY \$67
F964 8C9F02	5525	STY \$029F
F967 0A	5530	ASL A
F968 2667	5535	ROL \$67
F96A 0A	5540	ASL A
F96B 2667	5545	ROL \$67
F96D 18	5550	CLC
F96E 6551	5555	ADC \$51
F970 8566	5560	STA \$66
F972 A567	5565	LDA \$67
F974 6D9F02	5570	ADC \$029F
F977 8567	5575	STA \$67
F979 A657	5580	LDX \$57
F97B BC75FE	5585	LDY DHLINE, X
F97E 88	5590	CONVR1 DEY
F97F 3007	5595	BMI CONVR2
F981 0666	5600	ASL \$66
F983 2667	5605	ROL \$67
F985 4C7EF9	5610	JMP CONVR1
F988 BCA5FE	5615	CONVR2 LDY DIV2TB, X
F98B A555	5620	LDA \$55
F98D A207	5625	LDX #7
F98F 88	5630	CONVR3 DEY
F990 300A	5635	BMI CONVR4
F992 CA	5640	DEX
F993 4656	5645	LSR \$56
F995 6A	5650	ROR A
F996 6EA102	5655	ROR \$02A1
F999 4C8FF9	5660	JMP CONVR3
F99C C8	5665	CONVR4 INY
F99D 18	5670	CLC
F99E 6566	5675	ADC \$66
F9A0 8566	5680	STA \$66
F9A2 9002	5685	BCC CONVR5
F9A4 E667	5690	INC \$67
F9A6 38	5695	CONVR5 SEC
F9A7 6EA102	5700	CONVR6 ROR \$02A1
F9AA 18	5705	CLC
F9AB CA	5710	DEX
F9AC 10F9	5715	BPL CONVR6
F9AE AEA102	5720	LDX \$02A1
F9B1 A566	5725	LDA \$66
F9B3 18	5730	CLC
F9B4 6564	5735	ADC \$64
F9B6 8564	5740	STA \$64
F9B8 855E	5745	STA \$5E
F9BA A567	5750	LDA \$67
F9BC 6565	5755	ADC \$65
F9BE 8565	5760	STA \$65
F9C0 855F	5765	STA \$5F
F9C2 BDB5FE	5770	LDA DMASKT, X
F9C5 8DA002	5775	STA \$02A0
F9C8 856F	5780	STA \$6F
F9CA 68	5785	PLA

F9CB	8556	5790	STA \$56
F9CD	68	5795	PLA
F9CE	8555	5800	STA \$55
F9D0	68	5805	PLA
F9D1	8554	5810	STA \$54
F9D3	60	5815	RTS
F9D4	A900	5820	INCRSB LDA #0
F9D6	F002	5825	BEQ INCRSC
F9D8	A99B	5830	INCRSR LDA ##9B
F9DA	857D	5835	INCRSC STA \$7D
F9DC	E663	5840	INCRSA INC \$63
F9DE	E655	5845	INC \$55
F9E0	D002	5850	BNE INCSR2
F9E2	E656	5855	INC \$56
F9E4	A555	5860	INCSR2 LDA \$55
F9E6	A657	5865	LDX \$57
F9E8	DD85FE	5870	CMP COLUMN,X
F9EB	F00B	5875	BEQ INC2A
F9ED	E000	5880	CPX #0
F9EF	D006	5885	BNE INCRS3
F9F1	C553	5890	CMP \$53
F9F3	F002	5895	BEQ INCRS3
F9F5	B001	5900	BCS INC2A
F9F7	60	5905	INCRS3 RTS
F9F8	E008	5910	INC2A CPX #8
F9FA	9004	5915	BCC DOCR1
F9FC	A556	5920	LDA \$56
F9FE	F0F7	5925	BEQ INCRS3
FA00	A557	5930	DOCR1 LDA \$57
FA02	D030	5935	BNE DOCR
FA04	A563	5940	LDA \$63
FA06	C951	5945	CMP #81
FA08	900A	5950	BCC DOCR1B
FA0A	A57D	5955	LDA \$7D
FA0C	F026	5960	BEQ DOCR
FA0E	2030FA	5965	JSR DOCRWS
FA11	4C77FA	5970	JMP INCRS1
FA14	2034FA	5975	DOCR1B JSR DOCR
FA17	A554	5980	LDA \$54
FA19	18	5985	CLC
FA1A	6978	5990	ADC #120
FA1C	2025FB	5995	JSR BITGET
FA1F	9008	6000	BCC DOCR1A
FA21	A57D	6005	LDA \$7D
FA23	F004	6010	BEQ DOCR1A
FA25	18	6015	CLC
FA26	20A5F8	6020	JSR INSLIA
FA29	4CD5FB	6025	DOCR1A JMP DOLCOL
FA2C	A900	6030	NOSCR1 LDA #0
FA2E	F002	6035	BEQ NOSCR1
FA30	A99B	6040	DOCRWS LDA ##9B
FA32	857D	6045	NOSCR1 STA \$7D
FA34	20FEF0	6050	DOCR JSR COLCR
FA37	A900	6055	LDA #0
FA39	8556	6060	STA \$56
FA3B	E654	6065	INC \$54
FA3D	A657	6070	DOCR2 LDX \$57
FA3F	A018	6075	LDY #24
FA41	247B	6080	BIT \$7B
FA43	1005	6085	BPL DOCR2A
FA45	A004	6090	LDY #4

FA47 98	6095	TYA
FA48 D003	6100	BNE DOCR2B
FA4A BD95FE	6105	DOCR2A LDA NOROWS, X
FA4D C554	6110	DOCR2B CMP \$54
FA4F D026	6115	BNE INCRS1
FA51 8C9D02	6120	STY \$029D
FA54 8A	6125	TXA
FA55 D020	6130	BNE INCRS1
FA57 A57D	6135	LDA \$7D
FA59 F01C	6140	BEQ INCRS1
FA5B C99B	6145	CMP #\$9B
FA5D 38	6150	SEC
FA5E F001	6155	BEQ DOCR4B
FA60 18	6160	CLC
FA61 20ACFB	6165	DOCR4B JSR SCROLL
FA64 EEBB02	6170	INC \$02BB
FA67 C66C	6175	DEC \$6C
FA69 CE9D02	6180	DEC \$029D
FA6C ADB202	6185	LDA \$02B2
FA6F 38	6190	SEC
FA70 10EF	6195	BPL DOCR4B
FA72 AD9D02	6200	LDA \$029D
FA75 8554	6205	STA \$54
FA77 4CD5FB	6210	INCRS1 JMP DOLCOL
FA7A 38	6215	SUBEND SEC
FA7B B570	6220	LDA \$70, X
FA7D E574	6225	SBC \$74
FA7F 9570	6230	STA \$70, X
FA81 B571	6235	LDA \$71, X
FA83 E575	6240	SBC \$75
FA85 9571	6245	STA \$71, X
FA87 60	6250	RTS
FA88 ADBF02	6255	ERANGE LDA \$02BF
FA8B C904	6260	CMP #4
FA8D F007	6265	BEQ RANGE
FA8F A557	6270	LDA \$57
FA91 F003	6275	BEQ RANGE
FA93 20FCF3	6280	JSR EOPEN
FA96 A927	6285	RANGE LDA #39
FA98 C553	6290	CMP \$53
FA9A B002	6295	BCS RANGE3
FA9C 8553	6300	STA \$53
FA9E A657	6305	RANGE3 LDX \$57
FAA0 BD95FE	6310	LDA NOROWS, X
FAA3 C554	6315	CMP \$54
FAA5 902A	6320	BCC RNgERR
FAA7 F028	6325	BEQ RNgERR
FAA9 E008	6330	CPX #8
FAAB D00A	6335	BNE RANGE1
FAAD A556	6340	LDA \$56
FAAF F013	6345	BEQ RNgOK
FAB1 C901	6350	CMP #1
FAB3 D01C	6355	BNE RNgERR
FAB5 F004	6360	BEQ RANGE2
FAB7 A556	6365	RANGE1 LDA \$56
FAB9 D016	6370	BNE RNgERR
FABB BD85FE	6375	RANGE2 LDA COLUMN, X
FABE C555	6380	CMP \$55
FAC0 900F	6385	BCC RNgERR
FAC2 F00D	6390	BEQ RNgERR
FAC4 A901	6395	RNgOK LDA #1

FAC6 854C	6400	STA \$4C
FAC8 A980	6405	LDA #\$80
FACA A611	6410	LDX \$11
FACC 8511	6415	STA \$11
FACE F006	6420	BEQ RNGER2
FAD0 60	6425	RTS
FAD1 20D6F7	6430	RNGERR JSR HOME
FAD4 A98D	6435	LDA #\$8D
FAD6 854C	6440	RNGER2 STA \$4C
FAD8 68	6445	RNGER1 PLA
FAD9 68	6450	PLA
FADA A57B	6455	LDA \$7B
FADC 1003	6460	BPL RETUR3
FADE 20A1FC	6465	JSR SWAPA
FAE1 4C34F6	6470	RETUR3 JMP RETUR1
FAE4 A000	6475	OFFCRS LDY #0
FAE6 A55D	6480	LDA \$5D
FAE8 915E	6485	STA (\$5E),Y
FAEA 60	6490	RTS
FAEB 48	6495	BITCON PHA
FAEC 2907	6500	AND #7
FAEE AA	6505	TAX
FAEF BDBDFE	6510	LDA MASKTB,X
FAF2 856E	6515	STA \$6E
FAF4 68	6520	PLA
FAF5 4A	6525	LSR A
FAF6 4A	6530	LSR A
FAF7 4A	6535	LSR A
FAF8 AA	6540	TAX
FAF9 60	6545	RTS
FAFA 2EB402	6550	BITROL ROL \$02B4
FAFD 2EB302	6555	ROL \$02B3
FB00 2EB202	6560	ROL \$02B2
FB03 60	6565	RTS
FB04 900C	6570	BITPUT BCC BITCLR
FB06 20EBFA	6575	BITSET JSR BITCON
FB09 BDA302	6580	LDA \$02A3,X
FB0C 056E	6585	ORA \$6E
FB0E 9DA302	6590	STA \$02A3,X
FB11 60	6595	RTS
FB12 20EBFA	6600	BITCLR JSR BITCON
FB15 A56E	6605	LDA \$6E
FB17 49FF	6610	EOR #\$FF
FB19 3DA302	6615	AND \$02A3,X
FB1C 9DA302	6620	STA \$02A3,X
FB1F 60	6625	RTS
FB20 A554	6630	LOGGET LDA \$54
FB22 18	6635	LO1GET CLC
FB23 6978	6640	LO2GET ADC #120
FB25 20EBFA	6645	BITGET JSR BITCON
FB28 18	6650	CLC
FB29 BDA302	6655	LDA \$02A3,X
FB2C 256E	6660	AND \$6E
FB2E F001	6665	BEQ BITGE1
FB30 38	6670	SEC
FB31 60	6675	BITGE1 RTS
FB32 ADFA02	6680	INATAC LDA \$02FA
FB35 A457	6685	LDY \$57
FB37 C003	6690	CPY #3
FB39 B00F	6695	BCS INATA1
FB3B 2A	6700	ROL A

FB3C 2A	6705	ROL A
FB3D 2A	6710	ROL A
FB3E 2A	6715	ROL A
FB3F 2903	6720	AND #3
FB41 AA	6725	TAX
FB42 ADFA02	6730	LDA #02FA
FB45 299F	6735	AND #\$9F
FB47 1DF4FF	6740	ORA INTATA,X
FB4A 8DFB02	6745	INATA1 STA #02FB
FB4D 60	6750	RTS
FB4E A902	6755	MOVLIN LDA #2
FB50 8565	6760	STA #65
FB52 A947	6765	LDA #\$47
FB54 8564	6770	STA #64
FB56 A027	6775	LDY #39
FB58 B166	6780	MOVLI1 LDA (\$66),Y
FB5A 8550	6785	STA #50
FB5C B168	6790	LDA (\$68),Y
FB5E 9166	6795	STA (\$66),Y
FB60 A550	6800	LDA #50
FB62 9164	6805	STA (\$64),Y
FB64 88	6810	DEY
FB65 10F1	6815	BPL MOVLI1
FB67 A565	6820	LDA #65
FB69 8569	6825	STA #69
FB6B A564	6830	LDA #64
FB6D 8568	6835	STA #68
FB6F 18	6840	CLC
FB70 A566	6845	LDA #66
FB72 6928	6850	ADC #40
FB74 8566	6855	STA #66
FB76 9002	6860	BCC MOVLI2
FB78 E667	6865	INC #67
FB7A 60	6870	MOVLI2 RTS
FB7B 08	6875	EXTEND PHP
FB7C A017	6880	LDY #23
FB7E 98	6885	EXTEN1 TYA
FB7F 2022FB	6890	JSR L01GET
FB82 08	6895	PHP
FB83 98	6900	TYA
FB84 18	6905	CLC
FB85 6979	6910	ADC #121
FB87 28	6915	PLP
FB88 2004FB	6920	JSR BITPUT
FB8B 88	6925	EXTEN3 DEY
FB8C 3004	6930	BMI EXTEN4
FB8E C454	6935	CPY #54
FB90 B0EC	6940	BCS EXTEN1
FB92 A554	6945	EXTEN4 LDA #54
FB94 18	6950	CLC
FB95 6978	6955	ADC #120
FB97 28	6960	PLP
FB98 4C04FB	6965	JMP BITPUT
FB9B A552	6970	CLRLIN LDA #52
FB9D 8555	6975	STA #55
FB9F 2047F9	6980	JSR CONVRT
FBA2 A027	6985	LDY #39
FBA4 A900	6990	LDA #0
FBA6 9164	6995	CLRLI1 STA (\$64),Y
FBA8 88	7000	DEY
FBA9 10FB	7005	BPL CLRLI1

FBAB 60	7010 RTS
FBAC 20FAFA	7015 SCROLL JSR BITROL
FBAF 20D4FC	7020 JSR PUTMSC
FBB2 A028	7025 SCROL1 LDY #40
FBB4 B164	7030 LDA (\$64),Y
FBB6 A66A	7035 LDX \$6A
FBB8 CA	7040 DEX
FBB9 E465	7045 CPX \$65
FBBB D00B	7050 BNE SCROL2
FBBD A2D7	7055 LDX #\$D7
FBBF E464	7060 CPX \$64
FBC1 B002	7065 BCS SCROL2
FBC3 A900	7070 LDA #0
FBC5 A000	7075 SCROL2 LDY #0
FBC7 9164	7080 STA (\$64),Y
FBC9 E664	7085 INC \$64
FBCB D0E5	7090 BNE SCROL1
FBCD E665	7095 INC \$65
FBCF A565	7100 LDA \$65
FBD1 C56A	7105 CMP \$6A
FBD3 D0DD	7110 BNE SCROL1
FBD5 A900	7115 DOLCOL LDA #0
FBD7 8563	7120 STA \$63
FBD9 A554	7125 LDA \$54
FBD8 8551	7130 STA \$51
FBDD A551	7135 DOLCO1 LDA \$51
FBD F 2022FB	7140 JSR L01GET
FBE2 B00C	7145 BCS DOLCO2
FBE4 A563	7150 LDA \$63
FBE6 18	7155 CLC
FBE7 6928	7160 ADC #40
FBE9 8563	7165 STA \$63
FBE8 C651	7170 DEC \$51
FBED 4CDDFB	7175 JMP DOLCO1
FBF0 18	7180 DOLCO2 CLC
FBF1 A563	7185 LDA \$63
FBF3 6555	7190 ADC \$55
FBF5 8563	7195 STA \$63
FBF7 60	7200 RTS
FBF8 2085FC	7205 DOBUF1 JSR PHACRS
FBFB A563	7210 LDA \$63
FBFD 48	7215 PHA
FBFE A56C	7220 LDA \$6C
FC00 8554	7225 STA \$54
FC02 A56D	7230 LDA \$6D
FC04 8555	7235 STA \$55
FC06 A901	7240 LDA #1
FC08 856B	7245 STA \$6B
FC0A A217	7250 DOBUF1 LDX #23
FC0C A57B	7255 LDA \$7B
FC0E 1002	7260 BPL DOB1
FC10 A203	7265 LDX #3
FC12 E454	7270 DOB1 CPX \$54
FC14 D00B	7275 BNE DOBU1A
FC16 A555	7280 LDA \$55
FC18 C553	7285 CMP \$53
FC1A D005	7290 BNE DOBU1A
FC1C E66B	7295 INC \$6B
FC1E 4C31FC	7300 JMP DOBUF2
FC21 20D4F9	7305 DOBU1A JSR INCRSB
FC24 E66B	7310 INC \$6B

FC26 A563	7315	LDA #63
FC28 C552	7320	CMP #52
FC2A D0DE	7325	BNE DOBUF1
FC2C C654	7330	DEC #54
FC2E 2099F7	7335	JSR CRSRLF
FC31 20A2F5	7340	DOBUF2 JSR GETPLT
FC34 D017	7345	BNE DOBUF4
FC36 C66B	7350	DEC #6B
FC38 A563	7355	LDA #63
FC3A C552	7360	CMP #52
FC3C F00F	7365	BEQ DOBUF4
FC3E 2099F7	7370	JSR CRSRLF
FC41 A555	7375	LDA #55
FC43 C553	7380	CMP #53
FC45 D002	7385	BNE DOBUF3
FC47 C654	7390	DEC #54
FC49 A56B	7395	DOBUF3 LDA #6B
FC4B D0E4	7400	BNE DOBUF2
FC4D 6B	7405	DOBUF4 PLA
FC4E 8563	7410	STA #63
FC50 2090FC	7415	JSR PLACRS
FC53 60	7420	RTS
FC54 20D5FB	7425	STRBEG JSR DOLCOL
FC57 A551	7430	LDA #51
FC59 856C	7435	STA #6C
FC5B A552	7440	LDA #52
FC5D 856D	7445	STA #6D
FC5F 60	7450	RTS
FC60 A563	7455	DELTIA LDA #63
FC62 C552	7460	CMP #52
FC64 D002	7465	BNE DELTIB
FC66 C654	7470	DEC #54
FC68 20D5FB	7475	DELTIB JSR DOLCOL
FC6B A563	7480	DELTIM LDA #63
FC6D C552	7485	CMP #52
FC6F F013	7490	BEQ DELTI3
FC71 2047F9	7495	JSR CONVRT
FC74 A553	7500	LDA #53
FC76 38	7505	SEC
FC77 E552	7510	SBC #52
FC79 A8	7515	TAY
FC7A B164	7520	DELTII1 LDA (#64),Y
FC7C D006	7525	BNE DELTI3
FC7E 88	7530	DEY
FC7F 10F9	7535	BPL DELTI1
FC81 4CDBF8	7540	DELTII2 JMP DELLIB
FC84 60	7545	DELTII3 RTS
FC85 A202	7550	PHACRS LDX #2
FC87 B554	7555	PHACR1 LDA #54,X
FC89 9DBB02	7560	STA #02BB,X
FC8C CA	7565	DEX
FC8D 10F8	7570	BPL PHACR1
FC8F 60	7575	RTS
FC90 A202	7580	PLACRS LDX #2
FC92 BDBB02	7585	PLACR1 LDA #02BB,X
FC95 9554	7590	STA #54,X
FC97 CA	7595	DEX
FC98 10F8	7600	BPL PLACR1
FC9A 60	7605	RTS
FC9B 20A1FC	7610	SWAP JSR SWAPA
FC9E 4C34F6	7615	JMP RETUR1

FCA1	ADBF02	7620	SWAPA LDA \$02BF
FCA4	C918	7625	CMP #24
FCA6	F017	7630	BEQ SWAP3
FCAB	A20B	7635	LDX #11
FCAA	B554	7640	SWAP1 LDA \$54,X
FCAC	48	7645	PHA
FCAD	BD9002	7650	LDA \$0290,X
FCB0	9554	7655	STA \$54,X
FCB2	68	7660	PLA
FCB3	9D9002	7665	STA \$0290,X
FCB6	CA	7670	DEX
FCB7	10F1	7675	BPL SWAP1
FCB9	A57B	7680	LDA \$7B
FCBB	49FF	7685	EOR #\$FF
FCBD	857B	7690	STA \$7B
FCBF	60	7695	SWAP3 RTS
FCC0	A54B	7700	GETSEC LDA \$4B
FCC2	F003	7705	BEQ DISKM
FCC4	4C7AE4	7710	JMP \$E47A
FCC7	A952	7715	DISKM LDA #\$52
FCC9	8D0203	7720	STA \$0302
FCCC	A901	7725	LDA #1
FCCE	8D0103	7730	STA \$0301
FCD1	4C53E4	7735	JMP \$E453
FCD4	A558	7740	PUTMSC LDA \$58
FCD6	8564	7745	STA \$64
FCD8	A559	7750	LDA \$59
FCDA	8565	7755	STA \$65
FCDC	60	7760	RTS
FCDD	A200	7765	DRAW LDX #0
FCDF	A522	7770	LDA \$22
FCE1	C911	7775	CMP #\$11
FCE3	F008	7780	BEQ DRAWA
FCE5	C912	7785	CMP #\$12
FCE7	F003	7790	BEQ DRAWB
FCE9	A084	7795	LDY #\$84
FCEB	60	7800	RTS
FCEC	E8	7805	DRAWB INX
FCED	8EB702	7810	DRAWA STX \$02B7
FCF0	A554	7815	LDA \$54
FCF2	8560	7820	STA \$60
FCF4	A555	7825	LDA \$55
FCF6	8561	7830	STA \$61
FCF8	A556	7835	LDA \$56
FCFA	8562	7840	STA \$62
FCFC	A901	7845	LDA #1
FCFE	8579	7850	STA \$79
FD00	857A	7855	STA \$7A
FD02	38	7860	SEC
FD03	A560	7865	LDA \$60
FD05	E55A	7870	SBC \$5A
FD07	8576	7875	STA \$76
FD09	B00D	7880	BCS DRAW1
FD0B	A9FF	7885	LDA #\$FF
FD0D	8579	7890	STA \$79
FD0F	A576	7895	LDA \$76
FD11	49FF	7900	EOR #\$FF
FD13	18	7905	CLC
FD14	6901	7910	ADC #1
FD16	8576	7915	STA \$76
FD18	38	7920	DRAW1 SEC

FD19	A561	7925	LDA \$61
FD1B	E55B	7930	SBC \$5B
FD1D	8577	7935	STA \$77
FD1F	A562	7940	LDA \$62
FD21	E55C	7945	SBC \$5C
FD23	8578	7950	STA \$78
FD25	B016	7955	BCS DRAW2
FD27	A9FF	7960	LDA #\$FF
FD29	857A	7965	STA \$7A
FD2B	A577	7970	LDA \$77
FD2D	49FF	7975	EOR #\$FF
FD2F	8577	7980	STA \$77
FD31	A578	7985	LDA \$78
FD33	49FF	7990	EOR #\$FF
FD35	8578	7995	STA \$78
FD37	E677	8000	INC \$77
FD39	D002	8005	BNE DRAW2
FD3B	E678	8010	INC \$78
FD3D	A202	8015	DRAW2 LDX #2
FD3F	A000	8020	LDY #0
FD41	8473	8025	STY \$73
FD43	98	8030	DRAW3A TYA
FD44	9570	8035	STA \$70,X
FD46	B55A	8040	LDA \$5A,X
FD48	9554	8045	STA \$54,X
FD4A	CA	8050	DEX
FD4B	10F6	8055	BPL DRAW3A
FD4D	A577	8060	LDA \$77
FD4F	E8	8065	INX
FD50	A8	8070	TAY
FD51	A578	8075	LDA \$78
FD53	857F	8080	STA \$7F
FD55	8575	8085	STA \$75
FD57	D00A	8090	BNE DRAW3
FD59	A577	8095	LDA \$77
FD5B	C576	8100	CMP \$76
FD5D	B004	8105	BCS DRAW3
FD5F	A476	8110	LDY \$76
FD61	A202	8115	LDX #2
FD63	98	8120	DRAW3 TYA
FD64	857E	8125	STA \$7E
FD66	8574	8130	STA \$74
FD68	48	8135	PHA
FD69	A575	8140	LDA \$75
FD6B	4A	8145	LSR A
FD6C	68	8150	PLA
FD6D	6A	8155	ROR A
FD6E	9570	8160	STA \$70,X
FD70	A57E	8165	DRAW4A LDA \$7E
FD72	057F	8170	ORA \$7F
FD74	D003	8175	BNE DRAW11
FD76	4C22FE	8180	JMP DRAW10
FD79	18	8185	DRAW11 CLC
FD7A	A570	8190	LDA \$70
FD7C	6576	8195	ADC \$76
FD7E	8570	8200	STA \$70
FD80	9002	8205	BCC DRAW5
FD82	E671	8210	INC \$71
FD84	A571	8215	DRAW5 LDA \$71
FD86	C575	8220	CMP \$75
FD88	9014	8225	BCC DRAW6

FDBA	D006	8230	BNE	DRAW5A
FDBC	A570	8235	LDA	\$70
FD8E	C574	8240	CMP	\$74
FD90	900C	8245	BCC	DRAW6
FD92	18	8250	DRAW5A	CLC
FD93	A554	8255	LDA	\$54
FD95	6579	8260	ADC	\$79
FD97	8554	8265	STA	\$54
FD99	A200	8270	LDX	#0
FD9B	207AFA	8275	JSR	SUBEND
FD9E	18	8280	DRAW6	CLC
FD9F	A572	8285	LDA	\$72
FDA1	6577	8290	ADC	\$77
FDA3	8572	8295	STA	\$72
FDA5	A573	8300	LDA	\$73
FDA7	6578	8305	ADC	\$78
FDA9	8573	8310	STA	\$73
FDAB	C575	8315	CMP	\$75
FDAD	9027	8320	BCC	DRAW8
FDAF	D006	8325	BNE	DRAW6A
FDB1	A572	8330	LDA	\$72
FDB3	C574	8335	CMP	\$74
FDB5	901F	8340	BCC	DRAW8
FDB7	247A	8345	DRAW6A	BIT \$7A
FDB9	1010	8350	BPL	DRAW6B
FDBB	C655	8355	DEC	\$55
FDBD	A555	8360	LDA	\$55
FDBF	C9FF	8365	CMP	#\$FF
FDC1	D00E	8370	BNE	DRAW7
FDC3	A556	8375	LDA	\$56
FDC5	F00A	8380	BEQ	DRAW7
FDC7	C656	8385	DEC	\$56
FDC9	1006	8390	BPL	DRAW7
FDCB	E655	8395	DRAW6B	INC \$55
FDCD	D002	8400	BNE	DRAW7
FDCF	E656	8405	INC	\$56
FDD1	A202	8410	DRAW7	LDX #2
FDD3	207AFA	8415	JSR	SUBEND
FDD6	2096FA	8420	DRAW8	JSR RANGE
FDD9	20E0F5	8425	JSR	OUTPLT
FDDC	ADB702	8430	LDA	\$02B7
FDDF	F02F	8435	BEQ	DRAW9
FDE1	2085FC	8440	JSR	PHACRS
FDE4	ADFB02	8445	LDA	\$02FB
FDE7	8DBC02	8450	STA	\$02BC
FDEA	A554	8455	DRAW8A	LDA \$54
FDEC	48	8460	PHA	
FDED	20DCF9	8465	JSR	INCRSA
FDF0	68	8470	PLA	
FDF1	8554	8475	STA	\$54
FDF3	2096FA	8480	DRAW8C	JSR RANGE
FDF6	20A2F5	8485	JSR	GETPLT
FDF9	D00C	8490	BNE	DRAW8B
FDFB	ADFD02	8495	LDA	\$02FD
FDFE	8DFB02	8500	STA	\$02FB
FE01	20E0F5	8505	JSR	OUTPLT
FE04	4CEAFD	8510	JMP	DRAW8A
FE07	ADBC02	8515	DRAW8B	LDA \$02BC
FE0A	8DFB02	8520	STA	\$02FB
FE0D	2090FC	8525	JSR	PLACRS
FE10	38	8530	DRAW9	SEC

FE11 A57E	8535	LDA \$7E
FE13 E901	8540	SBC #1
FE15 857E	8545	STA \$7E
FE17 A57F	8550	LDA \$7F
FE19 E900	8555	SBC #0
FE1B 857F	8560	STA \$7F
FE1D 3003	8565	BMI DRAW10
FE1F 4C70FD	8570	JMP DRAW4A
FE22 4C34F6	8575	DRAW10 JMP RETUR1
FE25 18100A0A	8580	ALOCAT .BYTE 24,16,10,10,16,28,52,100,196,196,196,196
FE29 101C3464		
FE2D C4C4C4C4		
FE31 1C1064C4	8585	.BYTE 28,16,100,196
FE35 17170B17	8590	NUMDLE .BYTE 23,23,11,23,47,47,95,95,97,97,97,97
FE39 2F2F5F5F		
FE3D 61616161		
FE41 170BBF61	8595	.BYTE 23,11,191,97
FE45 13130913	8600	MXDMDE .BYTE 19,19,9,19,39,39,79,79,65,65,65,65
FE49 27274F4F		
FE4D 41414141		
FE51 13099F41	8605	.BYTE 19,9,159,65
FE55 02060708	8610	ANCONV .BYTE 2,6,7,8,9,10,11,13,15,15,15,15
FE59 090A0B0D		
FE5D 0F0F0F0F		
FE61 04050C0E	8615	.BYTE 4,5,12,14
FE65 00000000	8620	PAGETB .BYTE 0,0,0,0,0,0,0,0,1,1,1,1,1
FE69 00000001		
FE6D 01010101		
FE71 00000101	8625	.BYTE 0,0,1,1
FE75 02010100	8630	DHLINE .BYTE 2,1,1,0,0,1,1,2,2,2,2,2
FE79 00010102		
FE7D 02020202		
FE81 02020102	8635	.BYTE 2,2,1,2
FE85 28141428	8640	COLUMN .BYTE 40,20,20,40,80,80,160,160,64,80,80,80
FE89 5050A0A0		
FE8D 40505050		
FE91 2828A0A0	8645	.BYTE 40,40,160,160
FE95 18180C18	8650	NOROWS .BYTE 24,24,12,24,48,48,96,96,192,192,192,192
FE99 30306060		
FE9D C0C0C0C0		
FEA1 180CC0C0	8655	.BYTE 24,12,192,192
FEA5 00000002	8660	DIV2TB .BYTE 0,0,0,2,3,2,3,2,3,1,1,1
FEA9 03020302		
FEAD 03010101		
FEB1 00000302	8665	.BYTE 0,0,3,2
FEB5 00FFF00F	8670	DMASKT .BYTE 0,\$FF,\$F0,\$0F,\$C0,\$30,\$0C,3
FEB9 C0300C03		
FEBD 80402010	8675	MASKTB .BYTE \$80,\$40,\$20,\$10,8,4,2,1,0,1,3,7
FEC1 08040201		
FEC5 00010307		
FEC9 28CAB246	8680	COLRTB .BYTE \$28,\$CA,\$B2,\$46,0
FECD 00		
FECE 1B	8685	CNTRLS .BYTE \$1B
FECF 79F7	8690	.WORD ESCAPE
FED1 1C	8695	.BYTE \$1C
FED2 7FF7	8700	.WORD CRSRUP
FED4 1D	8705	.BYTE \$1D
FED5 8CF7	8710	.WORD CRSRDN
FED7 1E	8715	.BYTE \$1E
FED8 99F7	8720	.WORD CRSRLF
FEDA 1F	8725	.BYTE \$1F

FEDB AAF7	8730	.WORD CRSRRT
FEDD 7D	8735	.BYTE \$7D
FEDE B9F7	8740	.WORD CLRSCR
FEE0 7E	8745	.BYTE \$7E
FEE1 E6F7	8750	.WORD BS
FEE3 7F	8755	.BYTE \$7F
FEE4 10F8	8760	.WORD TAB
FEE6 9B	8765	.BYTE \$9B
FEE7 30FA	8770	.WORD DOCRWS
FEE9 9C	8775	.BYTE \$9C
FEEA D4F8	8780	.WORD DELLIN
FEED 9D	8785	.BYTE \$9D
FEED A4F8	8790	.WORD INSLIN
FEED 9E	8795	.BYTE \$9E
FEF0 32F8	8800	.WORD CLRTAB
FEF2 9F	8805	.BYTE \$9F
FEF3 2DF8	8810	.WORD SETTAB
FEF5 FD	8815	.BYTE \$FD
FEF6 0AF9	8820	.WORD BELL
FEF8 FE	8825	.BYTE \$FE
FEF9 6DF8	8830	.WORD DELCHR
FEFB FF	8835	.BYTE \$FF
FEFC 37F8	8840	.WORD INSCHR
FEFE 6C6A3B80	8845	ATASCI .BYTE \$6C, \$6A, \$3B, \$80, \$80, \$6B, \$2B, \$2A
FF02 806B2B2A		
FF06 6F807075	8850	.BYTE \$6F, \$80, \$70, \$75, \$9B, \$69, \$2D, \$3D
FF0A 9B692D3D		
FF0E 76806380	8855	.BYTE \$76, \$80, \$63, \$80, \$80, \$62, \$78, \$7A
FF12 8062787A		
FF16 34803336	8860	.BYTE \$34, \$80, \$33, \$36, \$1B, \$35, \$32, \$31
FF1A 1B353231		
FF1E 2C202E6E	8865	.BYTE \$2C, \$20, \$2E, \$6E, \$80, \$6D, \$2F, \$81
FF22 806D2F81		
FF26 72806579	8870	.BYTE \$72, \$80, \$65, \$79, \$7F, \$74, \$77, \$71
FF2A 7F747771		
FF2E 39803037	8875	.BYTE \$39, \$80, \$30, \$37, \$7E, \$38, \$3C, \$3E
FF32 7E383C3E		
FF36 66686480	8880	.BYTE \$66, \$68, \$64, \$80, \$82, \$67, \$73, \$61
FF3A 82677361		
FF3E 4C4A3A80	8885	.BYTE \$4C, \$4A, \$3A, \$80, \$80, \$4B, \$5C, \$5E
FF42 804B5C5E		
FF46 4F805055	8890	.BYTE \$4F, \$80, \$50, \$55, \$9B, \$49, \$5F, \$7C
FF4A 9B495F7C		
FF4E 56804380	8895	.BYTE \$56, \$80, \$43, \$80, \$80, \$42, \$58, \$5A
FF52 8042585A		
FF56 24802326	8900	.BYTE \$24, \$80, \$23, \$26, \$1B, \$25, \$22, \$21
FF5A 1B252221		
FF5E 5B205D4E	8905	.BYTE \$5B, \$20, \$5D, \$4E, \$80, \$4D, \$3F, \$81
FF62 804D3F81		
FF66 52804559	8910	.BYTE \$52, \$80, \$45, \$59, \$9F, \$54, \$57, \$51
FF6A 9F545751		
FF6E 28802927	8915	.BYTE \$28, \$80, \$29, \$27, \$9C, \$40, \$7D, \$9D
FF72 9C407D9D		
FF76 46484480	8920	.BYTE \$46, \$48, \$44, \$80, \$83, \$47, \$53, \$41
FF7A 83475341		
FF7E 0C0A7B80	8925	.BYTE \$0C, \$0A, \$7B, \$80, \$80, \$0B, \$1E, \$1F
FF82 800B1E1F		
FF86 0F801015	8930	.BYTE \$0F, \$80, \$10, \$15, \$9B, \$09, \$1C, \$1D
FF8A 9B091C1D		
FF8E 16800380	8935	.BYTE \$16, \$80, \$03, \$80, \$80, \$02, \$18, \$1A
FF92 8002181A		

FF76 80808580	8940	.BYTE \$80,\$80,\$85,\$80,\$1B,\$80,\$FD,\$80
FF7A 1B80FD80		
FF7E 0020600E	8945	.BYTE \$00,\$20,\$60,\$0E,\$80,\$0D,\$80,\$81
FFA2 800D8081		
FFA6 12800519	8950	.BYTE \$12,\$80,\$05,\$19,\$9E,\$14,\$17,\$11
FFAA 9E141711		
FFAE 80808080	8955	.BYTE \$80,\$80,\$80,\$80,\$FE,\$80,\$7D,\$FF
FFB2 FE807DFF		
FFB6 06080480	8960	.BYTE \$06,\$08,\$04,\$80,\$84,\$07,\$13,\$01
FFBA 84071301		
FFBE AD09D2	8965	PIRQ5 LDA \$D209
FFC1 CDF202	8970	CMF \$02F2
FFC4 D005	8975	BNE PIRQ3
FFC6 ADF102	8980	LDA \$02F1
FFC9 D01E	8985	BNE PIRQ4
FFCB AD09D2	8990	PIRQ3 LDA \$D209
FFCE C99F	8995	CMF #\$9F
FFD0 D00A	9000	BNE PIRQ1
FFD2 ADFF02	9005	LDA \$02FF
FFD5 49FF	9010	EOR #\$FF
FFD7 8DFF02	9015	STA \$02FF
FFDA B00D	9020	BCS PIRQ4
FFDC 8DFC02	9025	PIRQ1 STA \$02FC
FFDF 8DF202	9030	STA \$02F2
FFE2 A901	9035	LDA #1
FFE4 8DF102	9040	STA \$02F1
FFE7 854D	9045	STA \$4D
FFE9 A910	9050	PIRQ4 LDA #\$10
FFEB 8D2B02	9055	STA \$022B
FFEE 68	9060	PIRQ2 PLA
FFEF 40	9065	RTI
FFF0 40002060	9070	ATAINT .BYTE \$40,0,\$20,\$60
FFF4 20400060	9075	INTATA .BYTE \$20,\$40,0,\$60
FFF8 F3E61CE9	9080	.BYTE \$F3,\$E6,\$1C,\$E9,\$35,\$E9,\$F3,\$E6
FFFC 35E9F3E6		

F30E ALLSEC	FE25 ALOCAT	FE55 ANCONV	F705 ASCCD1	FFF0 ATAIN7
FEFE ATASCI	F00B ATEDF	F306 BADDISK	F058 BEEP	F05A BEEP1
F90A BELL	F90C BELL1	FB12 BITCLR	FAEB BITCON	FB31 BITGE1
FB25 BITGET	FB04 BITPUT	FAFA BITROL	FB06 BITSET	F223 BLACKB
F36C BLOAD	F2CF BOOT	F7E6 BS	FB0D BS1	FB05 BS2
F7F5 BS3	F7EC BSA	F239 CAINI	F23C CBINI	F3CD CINI
F0F2 CLICK	F0F4 CLICK1	F02B CLOSEC	F27A CLRCHP	FBA6 CLRLI1
FB9B CLRLIN	F140 CLRRAM	F7BF CLRSC2	F7CE CLRSC3	F7B9 CLRSCR
FB32 CLRTAB	F424 CLRTBS	F03B CLWRT	FECE CNTRLS	F0FE COLCR
F10B COLCR1	F10A COLCR2	FECD COLRTB	FE85 COLUMN	F7A7 COMRE1
F789 COMRET	F97E CONVR1	F98B CONVR2	F98F CONVR3	F99C CONVR4
F9A6 CONVR5	F9A7 CONVR6	F947 CONVRT	F5E7 CRL00P	F78C CRSRDN
F7A3 CRSRL1	F799 CRSRLF	F7AA CRSRRT	F77F CRSRUP	F39E CSBOOT
F3AC CSBOT2	F0AC CSIO	F913 DBDDEC	F91F DBDEC	F921 DBSUB
F934 DBSUB1	FB70 DELCH1	FB96 DELCH2	FB6D DELCHR	FBDD DELLI1
FBFB DELL12	FB07 DELLIA	FBDB DELLIB	FB04 DELLIN	FC7A DELTI1
FC81 DELTI2	FC84 DELTI3	FC60 DELTIA	FC68 DELTIB	FC6B DELTIM
F10D DERR5	=00F1 DERRH	=000D DERRL	FE75 DMLINE	F37E DINI
FCC7 DISKM	FEA5 DIV2TB	FE85 DMASKT	FC12 DOB1	F2ED DOBOOT
FC21 DOBU1A	FC0A DOBUF1	FC31 DOBUF2	FC49 DOBUF3	FC4D DOBUF4
FBFB DOBUFC	FA34 DOCR	FA00 DOCR1	FA29 DOCR1A	FA14 DOCR1B
FA3D DOCR2	FA4A DOCR2A	FA4D DOCR2B	FA61 DOCR4B	FA30 DOCRWS
FB0D DOLCO1	FBF0 DOLCO2	FB05 DOLCOL	F3F6 DOPEN	F3E2 DOPEN0
F44C DOPEN1	F4CD DOPEN2	F4F2 DOPEN3	F51E DOPEN4	F526 DOPEN5
F536 DOPEN6	F587 DOPEN7	F3E4 DOPENB	F576 DOPEN9	F443 DOPENA
F6AD DOSS	FCDD DRAW	FD18 DRAW1	FE22 DRAW10	FD79 DRAW11
FD3D DRAW2	FD63 DRAW3	FD43 DRAW3A	FD70 DRAW4A	FD84 DRAW5
FD92 DRAW5A	FD9E DRAW6	FDB7 DRAW6A	FDCB DRAW6B	FDD1 DRAW7
FDD6 DRAW8	FDEA DRAW8A	FE07 DRAW8B	FDF3 DRAW8C	FE10 DRAW9
FCEB DRAWA	FCEC DRAWB	F381 DSKRDE	F650 EGETC1	F66E EGETC2
F67C EGETC3	F691 EGETC5	F66B EGETC6	F680 EGETC7	F63E EGETCH
F35A ENBOOT	F1BD ENDACK	F1AC ENDBCK	F276 ENDRAM	F257 ENSPE2
F254 ENSPEC	F3FC EOPEN	F6BE EOUTC5	F6B5 EOUTC6	F6A4 EOUTCH
FA8B ERANGE	F68B ERETN	F779 ESCAPE	F173 ESTSCM	FB7E EXTEN1
FB8B EXTEN3	FB92 EXTEN4	FB7B EXTEND	F032 FCAX	F593 GETCH
F749 GETOUT	F5A2 GETPLT	FCC0 GETSEC	F277 HARD1	F7D6 HOME
F25F HOWNCH	FB4A INATA1	FB32 INATAC	F9F8 INC2A	FA77 INCRS1
F9F7 INCRS3	F9DC INCRSA	F9D4 INCRSB	F9DA INCRSC	F9DB INCRSR
F9E4 INCSR2	F852 INSCH1	F85E INSCH3	FB44 INSCH4	FB6A INSCH5
FB61 INSCH6	FB37 INSCHR	FB06 INSLI1	FBCE INSLI2	FBAS INSLIA
FBAA INSLIN	FFF4 INTATA	F00D ISEOF	F6A1 JSRIND	F729 K1
F734 K2	F73F K3	F776 K4	F768 K5	F74D K6
F745 K7	F773 K8	F71E KGETC1	F6DD KGETC2	F6FE KGETC3
F6E2 KGETCH	F7A5 LFRTCM	FB22 LO1GET	FB23 LO2GET	FB20 LO6GET
FEBD MASKTB	F50B MDE15	F4C0 MODE12	F471 MODE15	FB5B MOVL11
FB7A MOVL12	FB4E MOVLIN	F17D MOVVEC	F32D MVBUFF	F32F MVNXB
FE45 MXDNDE	F005 NLR	F1F1 NOA1	F212 NOA2	F1FB NOB1
F1FF NOBOOT	F220 NOCAR2	F1FC NOCART	F3AB NOCSB2	F3CC NOCSBT
F63D NOFUNC	F2DC NOINIT	F2CE NOKEY	F49F NOMOD	FE95 NOROWS
FA32 NOSCR1	FA2C NOSCR1	F47F NOTB	F4ED NOTMXD	F2DD NOWARM
FE35 NUNDLE	F18C NXTENT	FAE4 OFFCRS	F404 OPNCOM	F118 QPNEDT
F43F OPNERR	=00F1 OPNH	=001B OPNL	F17B OPSYS	F28A QSRAM
F5B7 OUTCH	F5FF OUTCH2	F5BD OUTCHA	F5D7 OUTCHB	F5CA OUTCHE
F5E0 OUTPLT	FE65 PAGETB	F010 PBYTE	FC87 PHACR1	FC85 PHACRS
FFDC PIRQ1	FFEE PIRQ2	FFCB PIRQ3	FFE9 PIRQ4	FFBE PIRQ5
FC92 PLACR1	FC90 PLACRS	F385 PUTLIN	FCD4 PUTMSC	F3D0 PWRONA
F125 PWRUP	F12B PWRUP1	FA96 RANGE	FAB7 RANGE1	FABB RANGE2
FA9E RANGE3	F310 RDBYTE	F11B RESET	F634 RETUR1	F621 RETUR2
FAE1 RETUR3	FAD8 RNGER1	FAD6 RNGER2	FAD1 RNGERR	FAC4 RNGOK
F1DB SCRNOK	FB82 SCROL1	FB05 SCROL2	FBAC SCROLL	F301 SECT1
F34C SECTX	FB2D SETTAB	F5B1 SHIFT1	F610 SHIFT2	F5AA SHIFTD

F608 SHIFU
F91D STORE1
FC9B SWAP
F823 TAB1
F23B TSTCT2
F08C WFAK1
F13B ZERORM

F095 SIOSB
FC54 STRBEG
FCAA SWAP1
F82A TAB2
F229 TSTCTL
F060 WFL
F160 ZOSRAM

F23F SPECL
F942 STRERR
FCBF SWAP3
F0E3 TBLENT
F787 UPDNCM
F0D2 WSIOSB
F163 ZOSRM2

F028 STATU
F946 STROK
FCA1 SWAPA
=000E TBLEN
F48A VSWAIT
F046 WTLR
F16E ZOSRM3

F917 STORE
FA7A SUBEND
F810 TAB
F22B TSTCT1
F087 WFAK
F361 XBOOT
F04A ZTBUF

	05	.TITLE "OSNFV601"
0000	10	*= \$F000
F000 D003	15	BNE NLR
F002 AE7F04	20	LDX \$047F
F005 8E8A02	25	NLR STX \$028A
F008 4CD6EF	30	JMP \$EFD6
F00B C63F	35	ATEOF DEC \$3F
F00D A088	40	ISEOF LDY #\$88
F00F 60	45	RTS
F010 A63D	50	PBYTE LDX \$3D
F012 9D0004	55	STA \$0400,X
F015 E63D	60	INC \$3D
F017 A001	65	LDY #1
F019 E07F	70	CPX #127
F01B F001	75	BEG *+3
F01D 60	80	RTS
F01E A9FC	85	LDA #\$FC
F020 20D2F0	90	JSR WSI0SB
F023 A900	95	LDA #0
F025 853D	0100	STA \$3D
F027 60	0105	RTS
F028 A001	0110	STATU LDY #1
F02A 60	0115	RTS
F02B AD8902	0120	CLOSEC LDA \$0289
F02E 3008	0125	BMI CLWRT
F030 A001	0130	LDY #1
F032 A93C	0135	FCAX LDA #\$3C
F034 8D02D3	0140	STA \$D302
F037 60	0145	RTS
F038 A63D	0150	CLWRT LDX \$3D
F03A F00A	0155	BEG WTLR
F03C 8E7F04	0160	STX \$047F
F03F A9FA	0165	LDA #\$FA
F041 20D2F0	0170	JSR WSI0SB
F044 30EC	0175	BMI FCAX
F046 A27F	0180	WTLR LDX #127
F048 A900	0185	LDA #0
F04A 9D0004	0190	ZTBUF STA \$0400,X
F04D CA	0195	DEX
F04E 10FA	0200	BPL ZTBUF
F050 A9FE	0205	LDA #\$FE
F052 20D2F0	0210	JSR WSI0SB
F055 4C32F0	0215	JMP FCAX
F058 8540	0220	BEEP STA \$40
F05A A514	0225	BEEP1 LDA \$14
F05C 18	0230	CLC
F05D 691E	0235	ADC #30
F05F AA	0240	TAX
F060 A9FF	0245	WFL LDA #\$FF
F062 8D1FD0	0250	STA \$D01F
F065 A900	0255	LDA #0
F067 A0F0	0260	LDY #\$F0
F069 88	0265	DEY
F06A D0FD	0270	BNE *--1
F06C 8D1FD0	0275	STA \$D01F
F06F A0F0	0280	LDY #\$F0
F071 88	0285	DEY
F072 D0FD	0290	BNE *--1
F074 E414	0295	CPX \$14
F076 D0E8	0300	BNE WFL
F078 C640	0305	DEC \$40

F07A F00B	0310	BEG WFAK
F07C BA	0315	TXA
F07D 18	0320	CLC
F07E 690A	0325	ADC #10
F080 AA	0330	TAX
F081 E414	0335	CPX #14
F083 D0FC	0340	BNE *-2
F085 F0D3	0345	BEG BEEP1
F087 208CF0	0350	WFAK JSR WFAK1
F08A 98	0355	TYA
F08B 60	0360	RTS
F08C AD25E4	0365	WFAK1 LDA \$E425
F08F 48	0370	PHA
F090 AD24E4	0375	LDA \$E424
F093 48	0380	PHA
F094 60	0385	RTS
F095 8D0203	0390	SIOSB STA \$0302
F098 A900	0395	LDA #0
F09A 8D0903	0400	STA \$0309
F09D A983	0405	LDA #131
F09F 8D0803	0410	STA \$0308
FOA2 A903	0415	LDA #3
FOA4 8D0503	0420	STA \$0305
FOA7 A9FD	0425	LDA ##FD
FOA9 8D0403	0430	STA \$0304
FOAC A960	0435	CSID LDA ##60
FOAE 8D0003	0440	STA \$0300
FOB1 A900	0445	LDA #0
FOB3 8D0103	0450	STA \$0301
FOB6 A923	0455	LDA #35
FOB8 8D0603	0460	STA \$0306
FOBB AD0203	0465	LDA \$0302
FOBE A040	0470	LDY ##40
FOC0 C952	0475	CMP ##52
FOC2 F002	0480	BEG *+4
FOC4 A080	0485	LDY ##80
FOC6 8C0303	0490	STY \$0303
FOC9 A53E	0495	LDA \$3E
FOCB 8D0B03	0500	STA \$030B
FOCE 2059E4	0505	JSR \$E459
FOD1 60	0510	RTS
FOD2 8DFF03	0515	WSIOSB STA \$03FF
FOD5 A955	0520	LDA ##55
FOD7 8DFD03	0525	STA \$03FD
FODA 8DFE03	0530	STA \$03FE
FODD A957	0535	LDA ##57
FODF 2095F0	0540	JSR SIOSB
FOE2 60	0545	RTS
FOE3 50	0550	TBLEN .BYTE 'P '
FOE4 30E4	0555	.BYTE \$30,\$E4
FOE6 43	0560	.BYTE 'C '
FOE7 40E4	0565	.BYTE \$40,\$E4
FOE9 45	0570	.BYTE 'E '
FOEA 00E4	0575	.BYTE \$00,\$E4
FOEC 53	0580	.BYTE 'S '
FOED 10E4	0585	.BYTE \$10,\$E4
FOEF 4B	0590	.BYTE 'K '
FOFO 20E4	0595	.BYTE \$20,\$E4
=000E	0600	TBLLEN = 14
FOF2 A23F	0605	CLICK LDX ##3F
FOF4 8E1FD0	0610	CLICK1 STX \$D01F

FOF7 8E0AD4	0615	STX \$D40A
FOFA CA	0620	DEX
FOFB 10F7	0625	BPL CLICK1
FOFD 60	0630	RTS
FOFE A900	0635	COLCR LDA #0
F100 A67B	0640	LDX \$7B
F102 D004	0645	BNE COLCR1
F104 A657	0650	LDX \$57
F106 D002	0655	BNE COLCR2
F108 A552	0660	COLCR1 LDA \$52
F10A 8555	0665	COLCR2 STA \$55
F10C 60	0670	RTS
F10D 424F4F54	0675	DERR5 .BYTE "BOOT ERROR", \$9B
F111 20455252		
F115 4F529B		
=00F1	0680	DERRH = DERR5/256
=000D	0685	DERRL = DERR5&255
F118 453A9B	0690	OPNEDT .BYTE "E:", \$9B
=00F1	0695	OPNH = OPNEDT/256
=0018	0700	OPNL = OPNEDT&255
F11B 78	0705	RESET SEI
F11C AD4402	0710	LDA \$0244
F11F D004	0715	BNE PWRUP
F121 A9FF	0720	LDA #\$FF
F123 D003	0725	BNE PWRUP1
F125 78	0730	PWRUP SEI
F126 A900	0735	LDA #0
F128 8508	0740	PWRUP1 STA \$08
F12A D8	0745	CLD
F12B A2FF	0750	LDX #\$FF
F12D 9A	0755	TXS
F12E 203FF2	0760	JSR SPECL
F131 2077F2	0765	JSR HARDI
F134 A508	0770	LDA \$08
F136 D028	0775	BNE ZOSRAM
F138 A900	0780	ZERORM LDA #0
F13A A008	0785	LDY #8
F13C 8504	0790	STA \$04
F13E 8505	0795	STA \$05
F140 9104	0800	CLRRAM STA (\$04), Y
F142 C8	0805	INY
F143 C000	0810	CPY #0
F145 D0F9	0815	BNE CLRRAM
F147 E605	0820	INC \$05
F149 A605	0825	LDX \$05
F14B E406	0830	CPX \$06
F14D D0F1	0835	BNE CLRRAM
F14F AD72E4	0840	LDA \$E472
F152 850A	0845	STA \$0A
F154 AD73E4	0850	LDA \$E473
F157 850B	0855	STA \$0B
F159 A9FF	0860	LDA #\$FF
F15B 8D4402	0865	STA \$0244
F15E D013	0870	BNE ESTSCM
F160 A200	0875	ZOSRAM LDX #0
F162 8A	0880	TXA
F163 9D0002	0885	ZOSRM2 STA \$0200, X
F166 9D0003	0890	STA \$0300, X
F169 CA	0895	DEX
F16A D0F7	0900	BNE ZOSRM2
F16C A210	0905	LDX #\$10

F16E 9500	0910 ZOSRM3 STA 0,X
F170 E8	0915 INX
F171 10FB	0920 BPL ZOSRM3
F173 A902	0925 ESTSCM LDA #2
F175 8552	0930 STA \$52
F177 A927	0935 LDA #39
F179 8553	0940 STA \$53
F17B A225	0945 OPSYS LDX ##25
F17D BD80E4	0950 MOVVEC LDA \$E480,X
F180 9D0002	0955 STA \$0200,X
F183 CA	0960 DEX
F184 10F7	0965 BPL MOVVEC
F186 208AF2	0970 JSR OSRAM
F189 58	0975 CLI
F18A A20E	0980 LDX #TBLEN
F18C BDE3F0	0985 NXTENT LDA TBLEN,X
F18F 9D1A03	0990 STA \$031A,X
F192 CA	0995 DEX
F193 10F7	1000 BPL NXTENT
F195 A200	1005 LDX #0
F197 8607	1010 STX \$07
F199 8606	1015 STX \$06
F19B AEE402	1020 LDX \$02E4
F19E E090	1025 CPX ##90
F1A0 B00A	1030 BCS ENDBCK
F1A2 ADFC9F	1035 LDA \$9FFC
F1A5 D005	1040 BNE ENDBCK
F1A7 E607	1045 INC \$07
F1A9 20DBEC	1050 JSR \$ECD8 ;CHK CART
F1AC AEE402	1055 ENDBCK LDX \$02E4
F1AF E0B0	1060 CPX ##B0
F1B1 B00A	1065 BCS ENDACK
F1B3 AEFCBF	1070 LDX \$BFFC
F1B6 D005	1075 BNE ENDACK
F1B8 E606	1080 INC \$06
F1BA 20E2EC	1085 JSR \$ECE2
F1BD A903	1090 ENDACK LDA #3
F1BF A200	1095 LDX #0
F1C1 9D4203	1100 STA \$0342,X
F1C4 A918	1105 LDA #OPNL
F1C6 9D4403	1110 STA \$0344,X
F1C9 A9F1	1115 LDA #OPNH
F1CB 9D4503	1120 STA \$0345,X
F1CE A90C	1125 LDA ##0C
F1D0 9D4A03	1130 STA \$034A,X
F1D3 2056E4	1135 JSR \$E456
F1D6 1003	1140 BPL SCRNOK
F1D8 4C25F1	1145 JMP PWRUP
F1DB E8	1150 SCRNOK INX
F1DC D0FD	1155 BNE SCRNOK
F1DE C8	1160 INY
F1DF 10FA	1165 BPL SCRNOK
F1E1 209EF3	1170 JSR CSBOOT
F1E4 A506	1175 LDA \$06
F1E6 0507	1180 ORA \$07
F1E8 F012	1185 BEQ NOCART
F1EA A506	1190 LDA \$06
F1EC F003	1195 BEQ NOA1
F1EE ADFDBF	1200 LDA \$BFFD
F1F1 A607	1205 NOA1 LDX \$07
F1F3 F003	1210 BEQ NOB1

F1F5 0DFD9F	1215	ORA \$9FFD
F1F8 20BBEC	1220	NOB1 JSR \$ECBB
F1FB EA	1225	NOP
F1FC 20CFF2	1230	NOCART JSR BOOT
F1FF A900	1235	NOBOOT LDA #0
F201 8D4402	1240	STA \$0244
F204 A506	1245	LDA \$06
F206 F00A	1250	BEG NOA2
F208 ADFDBF	1255	LDA \$BFFD
F20B 2904	1260	AND #4
F20D F003	1265	BEG NOA2
F20F 6CFABF	1270	JMP (\$BFFA)
F212 A507	1275	NOA2 LDA \$07
F214 F00A	1280	BEG NOCAR2
F216 ADFD9F	1285	LDA \$9FFD
F219 2904	1290	AND #4
F21B F0DF	1295	BEG NOCART
F21D 6CFA9F	1300	JMP (\$9FFA)
F220 6C0A00	1305	NOCAR2 JMP (\$0A)
F223 203EF6	1310	BLACKB JSR EGETCH
F226 4C23F2	1315	JMP BLACKB
F229 A22D	1320	TSTCTL LDX #45
F22B BDCEFE	1325	TSTCT1 LDA CNTRLS,X
F22E CDFB02	1330	CMP \$02FB
F231 F005	1335	BEG TSTCT2
F233 CA	1340	DEX
F234 CA	1345	DEX
F235 CA	1350	DEX
F236 10F3	1355	BPL TSTCT1
F238 60	1360	TSTCT2 RTS
F239 6CFEBF	1365	CAINI JMP (\$BFFE)
F23C 6CFE9F	1370	CBINI JMP (\$9FFE)
F23F ADFCBF	1375	SPECL LDA \$BFFC
F242 D013	1380	BNE ENSPE2
F244 EEFCBF	1385	INC \$BFFC
F247 ADFCBF	1390	LDA \$BFFC
F24A D008	1395	BNE ENSPEC
F24C ADFDBF	1400	LDA \$BFFD
F24F 1003	1405	BPL ENSPEC
F251 20B0EC	1410	JSR \$ECB0
F254 CEFCBF	1415	ENSPEC DEC \$BFFC
F257 A000	1420	ENSPE2 LDY #0
F259 8405	1425	STY \$05
F25B A910	1430	LDA #\$10
F25D 8506	1435	STA \$06
F25F B105	1440	HOWMCH LDA (\$05),Y
F261 49FF	1445	EOR #\$FF
F263 9105	1450	STA (\$05),Y
F265 D105	1455	CMP (\$05),Y
F267 D00D	1460	BNE ENDRAM
F269 49FF	1465	EOR #\$FF
F26B 9105	1470	STA (\$05),Y
F26D A506	1475	LDA \$06
F26F 18	1480	CLC
F270 6910	1485	ADC #\$10
F272 8506	1490	STA \$06
F274 D0E9	1495	BNE HOWMCH
F276 60	1500	ENDRAM RTS
F277 A900	1505	HARDI LDA #0
F279 AA	1510	TAX
F27A 9D00D0	1515	CLRCHP STA \$D000,X

F27D	9D00D4	1520	STA \$D400,X
F280	9D00D2	1525	STA \$D200,X
F283	9D00D3	1530	STA \$D300,X
F286	E8	1535	INX
F287	D0F1	1540	BNE CLRCHP
F289	60	1545	RTS
F28A	C611	1550	OSRAM DEC \$11
F28C	A954	1555	LDA #\$54
F28E	8D3602	1560	STA \$0236
F291	A9E7	1565	LDA #\$E7
F293	8D3702	1570	STA \$0237
F296	A506	1575	LDA \$06
F298	8DE402	1580	STA \$02E4
F29B	8DE602	1585	STA \$02E6
F29E	A900	1590	LDA #0
F2A0	8DE502	1595	STA \$02E5
F2A3	8DE702	1600	STA \$02E7
F2A6	EA	1605	NOP
F2A7	EA	1610	NOP
F2A8	A907	1615	LDA #7
F2AA	8DE802	1620	STA \$02E8
F2AD	200CE4	1625	JSR \$E40C
F2B0	201CE4	1630	JSR \$E41C
F2B3	202CE4	1635	JSR \$E42C
F2B6	203CE4	1640	JSR \$E43C
F2B9	204CE4	1645	JSR \$E44C
F2BC	206EE4	1650	JSR \$E46E
F2BF	2065E4	1655	JSR \$E465
F2C2	206BE4	1660	JSR \$E46B
F2C5	AD1FDO	1665	LDA \$D01F
F2C8	2901	1670	AND #1
F2CA	D002	1675	BNE NOKEY
F2CC	E64A	1680	INC \$4A
F2CE	60	1685	NOKEY RTS
F2CF	A508	1690	BOOT LDA \$08
F2D1	F00A	1695	BEQ NOWARM
F2D3	A509	1700	LDA \$09
F2D5	2901	1705	AND #1
F2D7	F003	1710	BEQ NOINIT
F2D9	207EF3	1715	JSR DINI
F2DC	60	1720	NOINIT RTS
F2DD	A901	1725	NOWARM LDA #1
F2DF	8D0103	1730	STA \$0301
F2E2	A953	1735	LDA #\$53
F2E4	8D0203	1740	STA \$0302
F2E7	2053E4	1745	JSR \$E453
F2EA	1001	1750	BPL DOBOOT
F2EC	60	1755	RTS
F2ED	A900	1760	DOBOOT LDA #0
F2EF	8D0B03	1765	STA \$030B
F2F2	8D0403	1770	STA \$0304
F2F5	A901	1775	LDA #1
F2F7	8D0A03	1780	STA \$030A
F2FA	A904	1785	LDA #4
F2FC	8D0503	1790	STA \$0305
F2FF	EA	1795	NOP
F300	EA	1800	NOP
F301	20C0FC	1805	SECT1 JSR GETSEC
F304	1008	1810	BPL ALLSEC
F306	2081F3	1815	BADDSK JSR DSKRDE
F309	A54B	1820	LDA \$4B

F30B F0E0	1825	BEQ DOBOOT
F30D 60	1830	RTS
F30E A203	1835	ALLSEC LDX #3
F310 BD0004	1840	RDBYTE LDA \$0400,X
F313 9D4002	1845	STA \$0240,X
F316 CA	1850	DEX
F317 10F7	1855	BPL RDBYTE
F319 AD4202	1860	LDA \$0242
F31C 8504	1865	STA \$04
F31E AD4302	1870	LDA \$0243
F321 8505	1875	STA \$05
F323 AD0404	1880	LDA \$0404
F326 850C	1885	STA \$0C
F328 AD0504	1890	LDA \$0405
F32B 850D	1895	STA \$0D
F32D A07F	1900	MVBUFF LDY #\$7F
F32F B90004	1905	MVNXB LDA \$0400,Y
F332 9104	1910	STA (\$04),Y
F334 88	1915	DEY
F335 10F8	1920	BPL MVNXB
F337 18	1925	CLC
F338 A504	1930	LDA \$04
F33A 6980	1935	ADC #\$80
F33C 8504	1940	STA \$04
F33E A505	1945	LDA \$05
F340 6900	1950	ADC #0
F342 8505	1955	STA \$05
F344 CE4102	1960	DEC \$0241
F347 F011	1965	BEQ ENBOOT
F349 EE0A03	1970	INC \$030A
F34C 20C0FC	1975	SECTX JSR GETSEC
F34F 10DC	1980	BPL MVBUFF
F351 2081F3	1985	JSR DSKRDE
F354 A54B	1990	LDA \$4B
F356 D0AE	1995	BNE BADDSK
F358 F0F2	2000	BEQ SECTX
F35A A54B	2005	ENBOOT LDA \$4B
F35C F003	2010	BEQ XBOOT
F35E 20C0FC	2015	JSR GETSEC
F361 206CF3	2020	XBOOT JSR BLOAD
F364 B0A0	2025	BCS BADDSK
F366 207EF3	2030	JSR DINI
F369 E609	2035	INC \$09
F36B 60	2040	RTS
F36C 18	2045	BLOAD CLC
F36D AD4202	2050	LDA \$0242
F370 6906	2055	ADC #6
F372 8504	2060	STA \$04
F374 AD4302	2065	LDA \$0243
F377 6900	2070	ADC #0
F379 8505	2075	STA \$05
F37B 6C0400	2080	JMP (\$04)
F37E 6C0C00	2085	DINI JMP (\$0C)
F381 A20D	2090	DSKRDE LDX #DERRL
F383 A0F1	2095	LDY #DERRH
F385 8A	2100	PUTLIN TXA
F386 A200	2105	LDX #0
F388 9D4403	2110	STA \$0344,X
F38B 98	2115	TYA
F38C 9D4503	2120	STA \$0345,X
F38F A909	2125	LDA #9

F391	9D4203	2130	STA \$0342, X
F394	A9FF	2135	LDA #\$FF
F396	9D4803	2140	STA \$0348, X
F399	4C56E4	2145	JMP \$E456
F39C	EA	2150	NOP
F39D	EA	2155	NOP
F39E	A508	2160	CSBOOT LDA \$08
F3A0	F00A	2165	BEG CSBOT2
F3A2	A509	2170	LDA \$09
F3A4	2902	2175	AND #2
F3A6	F003	2180	BEG NOCSB2
F3A8	20CDF3	2185	JSR CINI
F3AB	60	2190	NOCSB2 RTS
F3AC	A54A	2195	CSBOT2 LDA \$4A
F3AE	F01C	2200	BEG NOCSBT
F3B0	A980	2205	LDA #\$80
F3B2	853E	2210	STA \$3E
F3B4	E64B	2215	INC \$4B
F3B6	207DE4	2220	JSR \$E47D
F3B9	2001F3	2225	JSR SECT1
F3BC	A900	2230	LDA #0
F3BE	854B	2235	STA \$4B
F3C0	854A	2240	STA \$4A
F3C2	0609	2245	ASL \$09
F3C4	A50C	2250	LDA \$0C
F3C6	8502	2255	STA \$02
F3C8	A50D	2260	LDA \$0D
F3CA	8503	2265	STA \$03
F3CC	60	2270	NOCSBT RTS
F3CD	6C0200	2275	CINI JMP (\$02)
F3D0	A9FF	2280	PWRONA LDA #\$FF
F3D2	8DFC02	2285	STA \$02FC
F3D5	ADE602	2290	LDA \$02E6
F3D8	29F0	2295	AND #\$F0
F3DA	856A	2300	STA \$6A
F3DC	A940	2305	LDA #\$40
F3DE	8DBE02	2310	STA \$02BE
F3E1	60	2315	RTS
F3E2	A205	2320	DOPEN0 LDX #5
F3E4	BDC8FE	2325	DOPEN8 LDA COLRTB-1, X
F3E7	9DC302	2330	STA \$02C3, X
F3EA	CA	2335	DEX
F3EB	D0F7	2340	BNE DOPEN8
F3ED	8664	2345	STX \$64
F3EF	A46A	2350	LDY \$6A
F3F1	88	2355	DEY
F3F2	8C9502	2360	STY \$0295
F3F5	60	2365	RTS
F3F6	A52B	2370	DOPEN LDA \$2B ; OLD DOPEN
F3F8	290F	2375	AND #\$0F
F3FA	D008	2380	BNE OPNCOM
F3FC	A52A	2385	EOPEN LDA \$2A
F3FE	290F	2390	AND #\$0F
F400	852A	2395	STA \$2A
F402	A900	2400	LDA #0
F404	8557	2405	OPNCOM STA \$57
F406	20E2F3	2410	JSR DOPEN0
F409	8E9302	2415	STX \$0293
F40C	867B	2420	STX \$7B
F40E	8EF002	2425	STX \$02F0
F411	A9E0	2430	LDA #\$E0

F413	8DF402	2435	STA \$02F4
F416	A902	2440	LDA #2
F418	8DF302	2445	STA \$02F3
F41B	8D2F02	2450	STA \$022F
F41E	A901	2455	LDA #1
F420	854C	2460	STA \$4C
F422	A00E	2465	LDY #14
F424	99A302	2470	CLRTBS STA \$02A3,Y
F427	88	2475	DEY
F428	10FA	2480	BPL CLRTBS
F42A	A9C0	2485	LDA #\$C0
F42C	0510	2490	ORA \$10
F42E	8510	2495	STA \$10
F430	8D0ED2	2500	STA \$D20E
F433	A960	2505	LDA #\$60
F435	8D9402	2510	STA \$0294
F438	A657	2515	LDX #57
F43A	BD55FE	2520	LDA ANCONV,X
F43D	D004	2525	BNE DOPENA
F43F	A991	2530	OPNERR LDA #\$91
F441	854C	2535	STA \$4C
F443	8551	2540	DOPENA STA \$51
F445	A56A	2545	LDA \$6A
F447	8565	2550	STA \$65
F449	BC25FE	2555	LDY ALOCAT,X
F44C	A928	2560	DOPEN1 LDA #40
F44E	2021F9	2565	JSR DBSUB
F451	88	2570	DEY
F452	D0F8	2575	BNE DOPEN1
F454	AD6F02	2580	LDA \$026F
F457	293F	2585	AND #\$3F
F459	8567	2590	STA \$67
F45B	A8	2595	TAY
F45C	E008	2600	CPX #8
F45E	901F	2605	BCC NOT8
F460	E00F	2610	CPX #15
F462	F00D	2615	BEQ MODE15
F464	E00C	2620	CPX #12
F466	B017	2625	BCS NOT8
F468	8A	2630	TXA
F469	6A	2635	ROR A
F46A	6A	2640	ROR A
F46B	6A	2645	ROR A
F46C	29C0	2650	AND #\$C0
F46E	0567	2655	ORA \$67
F470	A8	2660	TAY
F471	A910	2665	MODE15 LDA #16
F473	2021F9	2670	JSR DBSUB
F476	E00B	2675	CPX #11
F478	D005	2680	BNE NOT8
F47A	A906	2685	LDA #6
F47C	8DC802	2690	STA \$02C8
F47F	8C6F02	2695	NOT8 STY \$026F
F482	A564	2700	LDA \$64
F484	8558	2705	STA \$58
F486	A565	2710	LDA \$65
F488	8559	2715	STA \$59
F48A	AD0BD4	2720	VBWAIT LDA \$D40B
F48D	C97A	2725	CMP #\$7A
F48F	D0F9	2730	BNE VBWAIT
F491	201FF9	2735	JSR DEDEC

F494	BD65FE	2740	LDA PAGETB,X
F497	F006	2745	BEG NOMOD
F499	A9FF	2750	LDA #\$FF
F49B	8564	2755	STA \$64
F49D	C665	2760	DEC \$65
F49F	A564	2765	NOMOD LDA \$64
F4A1	8568	2770	STA \$68
F4A3	A565	2775	LDA \$65
F4A5	8569	2780	STA \$69
F4A7	2013F9	2785	JSR DBDDEC
F4AA	A941	2790	LDA #\$41
F4AC	2017F9	2795	JSR STORE
F4AF	8666	2800	STX \$66
F4B1	A918	2805	LDA #24
F4B3	8DBF02	2810	STA \$02BF
F4B6	A557	2815	LDA \$57
F4B8	C90C	2820	CMF #12
F4BA	B004	2825	BCS MODE12
F4BC	C909	2830	CMF #9
F4BE	B02D	2835	BCS NOTMXD
F4C0	A52A	2840	MODE12 LDA \$2A
F4C2	2910	2845	AND #\$10
F4C4	F027	2850	BEG NOTMXD
F4C6	A904	2855	LDA #4
F4C8	8DBF02	2860	STA \$02BF
F4CB	A202	2865	LDX #2
F4CD	A902	2870	DOPEN2 LDA #2
F4CF	2017F9	2875	JSR STORE
F4D2	CA	2880	DEX
F4D3	10F8	2885	BPL DOPEN2
F4D5	A46A	2890	LDY \$6A
F4D7	88	2895	DEY
F4D8	98	2900	TYA
F4D9	2017F9	2905	JSR STORE
F4DC	A960	2910	LDA #\$60
F4DE	2017F9	2915	JSR STORE
F4E1	A942	2920	LDA #\$42
F4E3	2017F9	2925	JSR STORE
F4E6	18	2930	CLC
F4E7	A910	2935	LDA #MXDMDE-NUMDLE
F4E9	6566	2940	ADC \$66
F4EB	8566	2945	STA \$66
F4ED	A466	2950	NOTMXD LDY \$66
F4EF	BE35FE	2955	LDX NUMDLE,Y
F4F2	A551	2960	DOPEN3 LDA \$51
F4F4	2017F9	2965	JSR STORE
F4F7	CA	2970	DEX
F4F8	D0F8	2975	BNE DOPEN3
F4FA	A557	2980	LDA \$57
F4FC	C908	2985	CMF #8
F4FE	9026	2990	BCC DOPEN5
F500	C90F	2995	CMF #15
F502	F004	3000	BEG MDE15
F504	C90C	3005	CMF #12
F506	B01E	3010	BCS DOPEN5
F508	A25D	3015	MDE15 LDX #93
F50A	A56A	3020	LDA \$6A
F50C	38	3025	SEC
F50D	E910	3030	SBC #\$10
F50F	2017F9	3035	JSR STORE
F512	A900	3040	LDA #0

F514	2017F9	3045	JSR STORE
F517	A551	3050	LDA \$51
F519	0940	3055	ORA ##40
F51B	2017F9	3060	JSR STORE
F51E	A551	3065	DOPEN4 LDA \$51
F520	2017F9	3070	JSR STORE
F523	CA	3075	DEX
F524	D0F8	3080	BNE DOPEN4
F526	A559	3085	DOPEN5 LDA \$59
F528	2017F9	3090	JSR STORE
F52B	A558	3095	LDA \$58
F52D	2017F9	3100	JSR STORE
F530	A551	3105	LDA \$51
F532	0940	3110	ORA ##40
F534	A203	3115	LDX #3
F536	2017F9	3120	DOPEN6 JSR STORE
F539	A970	3125	LDA ##70
F53B	CA	3130	DEX
F53C	D0F8	3135	BNE DOPEN6
F53E	A564	3140	LDA \$64
F540	8D3002	3145	STA \$0230
F543	A565	3150	LDA \$65
F545	8D3102	3155	STA \$0231
F548	A970	3160	LDA ##70
F54A	2017F9	3165	JSR STORE
F54D	A564	3170	LDA \$64
F54F	8DE502	3175	STA \$02E5
F552	A565	3180	LDA \$65
F554	8DE602	3185	STA \$02E6
F557	A568	3190	LDA \$68
F559	8564	3195	STA \$64
F55B	A569	3200	LDA \$69
F55D	8565	3205	STA \$65
F55F	AD3102	3210	LDA \$0231
F562	2017F9	3215	JSR STORE
F565	AD3002	3220	LDA \$0230
F568	2017F9	3225	JSR STORE
F56B	A54C	3230	LDA \$4C
F56D	1007	3235	BPL DOPEN9
F56F	48	3240	PHA
F570	20FCF3	3245	JSR EOPEN
F573	68	3250	PLA
F574	A8	3255	TAY
F575	60	3260	RTS
F576	A52A	3265	DOPEN9 LDA \$2A
F578	2920	3270	AND ##20
F57A	D00B	3275	BNE DOPEN7
F57C	20B9F7	3280	JSR CLRSCR
F57F	8D9002	3285	STA \$0290
F582	A552	3290	LDA \$52
F584	8D9102	3295	STA \$0291
F587	A922	3300	DOPEN7 LDA ##22
F589	0D2F02	3305	ORA \$022F
F58C	8D2F02	3310	STA \$022F
F58F	4C21F6	3315	JMP RETUR2
F592	EA	3320	NOP ;FILLER
F593	2096FA	3325	GETCH JSR RANGE
F596	20A2F5	3330	JSR GETPLT
F599	2032FB	3335	JSR INATAC
F59C	20D4F9	3340	JSR INCRSB
F59F	4C34F6	3345	JMP RETUR1

F5A2	2047F9	3350	GETPLT JSR CONVRT
F5A5	B164	3355	LDA (\$64),Y
F5A7	2DA002	3360	AND #02A0
F5AA	466F	3365	SHIFTD LSR \$6F
F5AC	B003	3370	BCS SHIFT1
F5AE	4A	3375	LSR A
F5AF	10F9	3380	BPL SHIFTD
F5B1	8DFA02	3385	SHIFT1 STA \$02FA
F5B4	C900	3390	CMP #0
F5B6	60	3395	RTS
F5B7	8DFB02	3400	OUTCH STA \$02FB
F5BA	2096FA	3405	JSR RANGE
F5BD	ADFB02	3410	OUTCHA LDA \$02FB
F5C0	C97D	3415	CMP #\$7D
F5C2	D006	3420	BNE OUTCHE
F5C4	20B9F7	3425	JSR CLRSCR
F5C7	4C21F6	3430	JMP RETUR2
F5CA	ADFB02	3435	OUTCHE LDA \$02FB
F5CD	C99B	3440	CMP #\$9B
F5CF	D006	3445	BNE OUTCHB
F5D1	2030FA	3450	JSR DOCRWS
F5D4	4C21F6	3455	JMP RETUR2
F5D7	20E0F5	3460	OUTCHB JSR OUTPLT
F5DA	20D8F9	3465	JSR INCRSR
F5DD	4C21F6	3470	JMP RETUR2
F5E0	ADFF02	3475	OUTPLT LDA \$02FF
F5E3	D0FB	3480	BNE OUTPLT
F5E5	A202	3485	LDX #2
F5E7	B554	3490	CRLOOP LDA \$54,X
F5E9	955A	3495	STA \$5A,X
F5EB	CA	3500	DEX
F5EC	10F9	3505	BPL CRLOOP
F5EE	ADFB02	3510	LDA \$02FB
F5F1	A8	3515	TAY
F5F2	2A	3520	ROL A
F5F3	2A	3525	ROL A
F5F4	2A	3530	ROL A
F5F5	2A	3535	ROL A
F5F6	2903	3540	AND #3
F5F8	AA	3545	TAX
F5F9	98	3550	TYA
F5FA	299F	3555	AND #\$9F
F5FC	1DFOFF	3560	DRA ATAINI,X
F5FF	8DFA02	3565	OUTCH2 STA \$02FA
F602	2047F9	3570	JSR CONVRT
F605	ADFA02	3575	LDA \$02FA
F608	466F	3580	SHIFTU LSR \$6F
F60A	B004	3585	BCS SHIFT2
F60C	0A	3590	ASL A
F60D	4C08F6	3595	JMP SHIFTU
F610	2DA002	3600	SHIFT2 AND \$02A0
F613	8550	3605	STA \$50
F615	ADA002	3610	LDA \$02A0
F618	49FF	3615	EOR #\$FF
F61A	3164	3620	AND (\$64),Y
F61C	0550	3625	ORA \$50
F61E	9164	3630	STA (\$64),Y
F620	60	3635	RTS
F621	20A2F5	3640	RETUR2 JSR GETPLT
F624	855D	3645	STA \$5D
F626	A657	3650	LDX \$57

F62B	D00A	3655	BNE RETUR1
F62A	AEF002	3660	LDX \$02F0
F62D	D005	3665	BNE RETUR1
F62F	4980	3670	EOR ##80
F631	20FFF5	3675	JSR OUTCH2
F634	A44C	3680	RETUR1 LDY \$4C
F636	A901	3685	LDA #1
F638	854C	3690	STA \$4C
F63A	ADFB02	3695	LDA \$02FB
F63D	60	3700	NOFUNC RTS
F63E	209BFC	3705	EGETCH JSR SWAP
F641	2088FA	3710	JSR ERANGE
F644	A56B	3715	LDA \$6B
F646	D034	3720	BNE EGETC3
F648	A554	3725	LDA \$54
F64A	856C	3730	STA \$6C
F64C	A555	3735	LDA \$55
F64E	856D	3740	STA \$6D
F650	20E2F6	3745	EGETC1 JSR KGETCH
F653	844C	3750	STY \$4C
F655	ADFB02	3755	LDA \$02FB
F658	C99B	3760	CMP ##9B
F65A	F012	3765	BEQ EGETC2
F65C	20ADF6	3770	JSR DOSS
F65F	209BFC	3775	JSR SWAP
F662	A563	3780	LDA \$63
F664	C971	3785	CMP #113
F666	D003	3790	BNE EGETC6
F668	200AF9	3795	JSR BELL
F66B	4C50F6	3800	EGETC6 JMP EGETC1
F66E	20E4FA	3805	EGETC2 JSR OFFCRS
F671	20F8FB	3810	JSR DOBUFC
F674	A56C	3815	LDA \$6C
F676	8554	3820	STA \$54
F678	A56D	3825	LDA \$6D
F67A	8555	3830	STA \$55
F67C	A56B	3835	EGETC3 LDA \$6B
F67E	F011	3840	BEQ EGETC5
F680	C66B	3845	EGETC7 DEC \$6B
F682	F00D	3850	BEQ EGETC5
F684	A54C	3855	LDA \$4C
F686	30F8	3860	BMI EGETC7
F688	2093F5	3865	JSR GETCH
F68B	8DFB02	3870	STA \$02FB
F68E	4C9BFC	3875	JMP SWAP
F691	2030FA	3880	EGETC5 JSR DOCRWS
F694	A99B	3885	LDA ##9B
F696	8DFB02	3890	STA \$02FB
F699	2021F6	3895	JSR RETUR2
F69C	844C	3900	STY \$4C
F69E	4C9BFC	3905	JMP SWAP
F6A1	6C6400	3910	JSRIND JMP (\$64)
F6A4	8DFB02	3915	EOUTCH STA \$02FB
F6A7	209BFC	3920	JSR SWAP
F6AA	2088FA	3925	JSR ERANGE
F6AD	20E4FA	3930	DOSS JSR OFFCRS
F6B0	2029F2	3935	JSR TSTCTL
F6B3	F009	3940	BEQ EOUTC5
F6B5	0EA202	3945	EOUTC6 ASL \$02A2
F6B8	20CAF5	3950	JSR OUTCHE
F6BB	4C9BFC	3955	ERETN JMP SWAP

F6BE	ADFE02	3960	EDUTC5 LDA #02FE
F6C1	0DA202	3965	ORA #02A2
F6C4	D0EF	3970	BNE EDUTC6
F6C6	0EA202	3975	ASL #02A2
F6C9	E8	3980	INX
F6CA	BDCEFE	3985	LDA CNTRLS, X
F6CD	8564	3990	STA #64
F6CF	BDCFFE	3995	LDA CNTRLS+1, X
F6D2	8565	4000	STA #65
F6D4	20A1F6	4005	JSR JSRIND
F6D7	2021F6	4010	JSR RETUR2
F6DA	4C9BFC	4015	JMP SWAP
F6DD	A9FF	4020	KGETC2 LDA ##FF
F6DF	8DFC02	4025	STA #02FC
F6E2	A52A	4030	KGETCH LDA \$2A
F6E4	4A	4035	LSR A
F6E5	B062	4040	BCS GETOUT
F6E7	A980	4045	LDA ##80
F6E9	A611	4050	LDX \$11
F6EB	F058	4055	BEQ K7
F6ED	ADFC02	4060	LDA #02FC
F6F0	C9FF	4065	CMP ##FF
F6F2	F0EE	4070	BEQ KGETCH
F6F4	857C	4075	STA \$7C
F6F6	A2FF	4080	LDX ##FF
F6F8	8EFC02	4085	STX #02FC
F6FB	20F2F0	4090	JSR CLICK
F6FE	AA	4095	KGETC3 TAX
F6FF	E0C0	4100	CPX ##C0
F701	9002	4105	BCC ASCC01
F703	A203	4110	LDX #3
F705	BDFEFE	4115	ASCC01 LDA ATASCI, X
F708	8DFB02	4120	STA #02FB
F70B	C980	4125	CMP ##80
F70D	F0CE	4130	BEQ KGETC2
F70F	C981	4135	CMP ##81
F711	D00B	4140	BNE KGETC1
F713	ADB602	4145	LDA #02B6
F716	4980	4150	EOR ##80
F718	8DB602	4155	STA #02B6
F71B	4CDDF6	4160	JMP KGETC2
F71E	C982	4165	KGETC1 CMP ##82
F720	D007	4170	BNE K1
F722	A900	4175	LDA #0
F724	8DBE02	4180	STA #02BE
F727	F0B4	4185	BEQ KGETC2
F729	C983	4190	K1 CMP ##83
F72B	D007	4195	BNE K2
F72D	A940	4200	LDA ##40
F72F	8DBE02	4205	STA #02BE
F732	D0A9	4210	BNE KGETC2
F734	C984	4215	K2 CMP ##84
F736	D007	4220	BNE K3
F738	A980	4225	LDA ##80
F73A	8DBE02	4230	STA #02BE
F73D	D09E	4235	BNE KGETC2
F73F	C985	4240	K3 CMP ##85
F741	D00A	4245	BNE K6
F743	A988	4250	LDA ##88
F745	854C	4255	K7 STA \$4C
F747	8511	4260	STA \$11

F749 A99B	4265 GETOUT LDA ##9B
F74B D026	4270 BNE K8
F74D A57C	4275 K6 LDA \$7C
F74F C940	4280 CMP ##40
F751 B015	4285 BCS K5
F753 ADFB02	4290 LDA \$02FB
F756 C961	4295 CMP ##61
F758 900E	4300 BCC K5
F75A C97B	4305 CMP ##7B
F75C B00A	4310 BCS K5
F75E ADBE02	4315 LDA \$02BE
F761 F005	4320 BEQ K5
F763 057C	4325 ORA \$7C
F765 4CFEF6	4330 JMP KGETC3
F768 2029F2	4335 K5 JSR TSTCTL
F76B F009	4340 BEQ K4
F76D ADFB02	4345 LDA \$02FB
F770 4DB602	4350 EOR \$02B6
F773 8DFB02	4355 K8 STA \$02FB
F776 4C34F6	4360 K4 JMP RETUR1
F779 A980	4365 ESCAPE LDA ##80
F77B 8DA202	4370 STA \$02A2
F77E 60	4375 RTS
F77F C654	4380 CRSRUP DEC \$54
F781 1006	4385 BPL COMRET
F783 AEBF02	4390 LDX \$02BF
F786 CA	4395 DEX
F787 8654	4400 UPDNCM STX \$54
F789 4C54FC	4405 COMRET JMP STRBEG
F78C E654	4410 CRSRDN INC \$54
F78E A554	4415 LDA \$54
F790 CDBF02	4420 CMP \$02BF
F793 90F4	4425 BCC COMRET
F795 A200	4430 LDX #0
F797 FOEE	4435 BEQ UPDNCM
F799 C655	4440 CRSRLF DEC \$55
F79B A555	4445 LDA \$55
F79D 3004	4450 BMI CRSRL1
F79F C552	4455 CMP \$52
F7A1 B004	4460 BCS COMRE1
F7A3 A553	4465 CRSRL1 LDA \$53
F7A5 8555	4470 LFRTCM STA \$55
F7A7 4CD5FB	4475 COMRE1 JMP DOLCOL
F7AA E655	4480 CRSRRT INC \$55
F7AC A555	4485 LDA \$55
F7AE C553	4490 CMP \$53
F7B0 90F5	4495 BCC COMRE1
F7B2 F0F3	4500 BEQ COMRE1
F7B4 A552	4505 LDA \$52
F7B6 4CA5F7	4510 JMP LFRTCM
F7B9 20D4FC	4515 CLRSCR JSR PUTMSC
F7BC A000	4520 LDY #0
F7BE 98	4525 TYA
F7BF 9164	4530 CLRSC2 STA (\$64),Y
F7C1 C8	4535 INY
F7C2 D0FB	4540 BNE CLRSC2
F7C4 E665	4545 INC \$65
F7C6 A665	4550 LDX \$65
F7C8 E46A	4555 CPX \$6A
F7CA 90F3	4560 BCC CLRSC2
F7CC A9FF	4565 LDA ##FF

F7CE 99B202	4570 CLRSC3 STA #02B2,Y
F7D1 C8	4575 INY
F7D2 C004	4580 CPY #4
F7D4 90F8	4585 BCC CLRSC3
F7D6 20FEF0	4590 HOME JSR COLCR
F7D9 8563	4595 STA #63
F7DB 856D	4600 STA #6D
F7DD A900	4605 LDA #0
F7DF 8554	4610 STA #54
F7E1 8556	4615 STA #56
F7E3 856C	4620 STA #6C
F7E5 60	4625 RTS
F7E6 A563	4630 BS LDA #63
F7E8 C552	4635 CMP #52
F7EA F021	4640 BEQ BS1
F7EC A555	4645 BSA LDA #55
F7EE C552	4650 CMP #52
F7F0 D003	4655 BNE BS3
F7F2 206BFC	4660 JSR DELTIM
F7F5 2099F7	4665 BS3 JSR CRSRLF
F7F8 A555	4670 LDA #55
F7FA C553	4675 CMP #53
F7FC D007	4680 BNE BS2
F7FE A554	4685 LDA #54
F800 F003	4690 BEQ BS2
F802 207FF7	4695 JSR CRSRUP
F805 A920	4700 BS2 LDA #20
F807 8DFB02	4705 STA #02FB
F80A 20E0F5	4710 JSR OUTPLT
F80D 4CD5FB	4715 BS1 JMP DOLCOL
F810 20AAF7	4720 TAB JSR CRSRRT
F813 A555	4725 LDA #55
F815 C552	4730 CMP #52
F817 D00A	4735 BNE TAB1
F819 2034FA	4740 JSR DOCR
F81C 2020FB	4745 JSR LOGGET
F81F 9002	4750 BCC TAB1
F821 B007	4755 BCS TAB2
F823 A563	4760 TAB1 LDA #63
F825 2025FB	4765 JSR BITGET
F828 90E6	4770 BCC TAB
F82A 4CD5FB	4775 TAB2 JMP DOLCOL
F82D A563	4780 SETTAB LDA #63
F82F 4C06FB	4785 JMP BITSET
F832 A563	4790 CLRTAB LDA #63
F834 4C12FB	4795 JMP BITCLR
F837 2085FC	4800 INSCHR JSR PHACRS
F83A 20A2F5	4805 JSR GETPLT
F83D 857D	4810 STA #7D
F83F A900	4815 LDA #0
F841 8DBB02	4820 STA #02BB
F844 20FFF5	4825 INSCH4 JSR OUTCH2
F847 A563	4830 LDA #63
F849 48	4835 PHA
F84A 20DCF9	4840 JSR INCRSA
F84D 68	4845 PLA
F84E C563	4850 CMP #63
F850 B00C	4855 BCS INSCH3
F852 A57D	4860 INSCH1 LDA #7D
F854 48	4865 PHA
F855 20A2F5	4870 JSR GETPLT

F85B 857D	4875	STA \$7D
F85A 68	4880	PLA
F85B 4C44F8	4885	JMP INSCH4
F85E 2090FC	4890	INSCH3 JSR PLACRS
F861 CEBB02	4895	INSCH6 DEC \$02BB
F864 3004	4900	BMI INSCH5
F866 C654	4905	DEC \$54
F868 D0F7	4910	BNE INSCH6
F86A 4CD5FB	4915	INSCH5 JMP DOLCOL
F86D 2085FC	4920	DELCHR JSR PHACRS
F870 2047F9	4925	DELCH1 JSR CONVRT
F873 A564	4930	LDA \$64
F875 8568	4935	STA \$68
F877 A565	4940	LDA \$65
F879 8569	4945	STA \$69
F87B A563	4950	LDA \$63
F87D 48	4955	PHA
F87E 20D4F9	4960	JSR INCRSB
F881 68	4965	PLA
F882 C563	4970	CMP \$63
F884 B010	4975	BCS DELCH2
F886 A554	4980	LDA \$54
F888 CDBF02	4985	CMP \$02BF
F88B B009	4990	BCS DELCH2
F88D 20A2F5	4995	JSR GETPLT
F890 A000	5000	LDY #0
F892 9168	5005	STA (\$68),Y
F894 F0DA	5010	BEQ DELCH1
F896 A000	5015	DELCH2 LDY #0
F898 98	5020	TYA
F899 9168	5025	STA (\$68),Y
F89B 2060FC	5030	JSR DELTIA
F89E 2090FC	5035	JSR PLACRS
F8A1 4CD5FB	5040	JMP DOLCOL
F8A4 38	5045	INSLIN SEC
F8A5 207BFB	5050	INSLIA JSR EXTEND
F8A8 A552	5055	LDA \$52
F8AA 8555	5060	STA \$55
F8AC 2047F9	5065	JSR CONVRT
F8AF A564	5070	LDA \$64
F8B1 8568	5075	STA \$68
F8B3 18	5080	CLC
F8B4 6928	5085	ADC #40
F8B6 8566	5090	STA \$66
F8B8 A565	5095	LDA \$65
F8BA 8569	5100	STA \$69
F8BC 6900	5105	ADC #0
F8BE 8567	5110	STA \$67
F8C0 A654	5115	LDX \$54
F8C2 E017	5120	CPX #23
F8C4 F008	5125	BEQ INSLI2
F8C6 204EFB	5130	INSLI1 JSR MOVLIN
F8C9 E8	5135	INX
F8CA E017	5140	CPX #23
F8CC D0F8	5145	BNE INSLI1
F8CE 209BFB	5150	INSLI2 JSR CLRLIN
F8D1 4CD5FB	5155	JMP DOLCOL
F8D4 20D5FB	5160	DELLIN JSR DOLCOL
F8D7 A451	5165	DELLIA LDY \$51
F8D9 8454	5170	STY \$54
F8DB A454	5175	DELLIB LDY \$54

F8DD 98	5180	DELLI1 TYA
F8DE 38	5185	SEC
F8DF 2023FB	5190	JSR L02GET
F8E2 08	5195	PHP
F8E3 98	5200	TYA
F8E4 18	5205	CLC
F8E5 6978	5210	ADC #120
F8E7 28	5215	PLP
F8EB 2004FB	5220	JSR BITPUT
F8EB C8	5225	INY
F8EC C018	5230	CPY #24
F8EE D0ED	5235	BNE DELL11
F8FO ADB402	5240	LDA \$02B4
F8F3 0901	5245	ORA #1
F8F5 8DB402	5250	STA \$02B4
F8F8 A552	5255	DELLI2 LDA \$52
F8FA 8555	5260	STA \$55
F8FC 2047F9	5265	JSR CONVRT
F8FF 20B2FB	5270	JSR SCROLL1
F902 2020FB	5275	JSR LOGGET
F905 90D4	5280	BCC DELL1B
F907 4CD5FB	5285	JMP DOLCOL
F90A A020	5290	BELL LDY ##20
F90C 20F2F0	5295	BELL1 JSR CLICK
F90F 88	5300	DEY
F910 10FA	5305	BPL BELL1
F912 60	5310	RTS
F913 A902	5315	DBDDEC LDA #2
F915 D00A	5320	BNE DBSUB
F917 A44C	5325	STORE LDY \$4C
F919 302B	5330	BMI STROK
F91B A000	5335	LDY #0
F91D 9164	5340	STORE1 STA (\$64),Y
F91F A901	5345	DBDEC LDA #1
F921 8D9E02	5350	DBSUB STA \$029E
F924 A54C	5355	LDA \$4C
F926 301E	5360	BMI STROK
F928 A564	5365	LDA \$64
F92A 38	5370	SEC
F92B ED9E02	5375	SBC \$029E
F92E 8564	5380	STA \$64
F930 B002	5385	BCS DBSUB1
F932 C665	5390	DEC \$65
F934 A50F	5395	DBSUB1 LDA \$0F
F936 C565	5400	CMP \$65
F938 900C	5405	BCC STROK
F93A D006	5410	BNE STRERR
F93C A50E	5415	LDA \$0E
F93E C564	5420	CMP \$64
F940 9004	5425	BCC STROK
F942 A993	5430	STRERR LDA ##93
F944 854C	5435	STA \$4C
F946 60	5440	STROK RTS
F947 A554	5445	CONVRT LDA \$54
F949 48	5450	PHA
F94A A555	5455	LDA \$55
F94C 48	5460	PHA
F94D A556	5465	LDA \$56
F94F 48	5470	PHA
F950 20D4FC	5475	JSR PUTMSC
F953 A554	5480	LDA \$54

F955 8566	5485	STA \$66
F957 A900	5490	LDA #0
F959 8567	5495	STA \$67
F95B A566	5500	LDA \$66
F95D 0A	5505	ASL A
F95E 2667	5510	ROL \$67
F960 8551	5515	STA \$51
F962 A467	5520	LDY \$67
F964 8C9F02	5525	STY \$029F
F967 0A	5530	ASL A
F968 2667	5535	ROL \$67
F96A 0A	5540	ASL A
F96B 2667	5545	ROL \$67
F96D 18	5550	CLC
F96E 6551	5555	ADC \$51
F970 8566	5560	STA \$66
F972 A567	5565	LDA \$67
F974 6D9F02	5570	ADC \$029F
F977 8567	5575	STA \$67
F979 A657	5580	LDX \$57
F97B BC75FE	5585	LDY DHLINE,, X
F97E 88	5590	CONVR1 DEY
F97F 3007	5595	BMI CONVR2
F981 0666	5600	ASL \$66
F983 2667	5605	ROL \$67
F985 4C7EF9	5610	JMP CONVR1
F988 BCA5FE	5615	CONVR2 LDY DIV2TB, X
F98B A555	5620	LDA \$55
F98D A207	5625	LDX #7
F98F 88	5630	CONVR3 DEY
F990 300A	5635	BMI CONVR4
F992 CA	5640	DEX
F993 4656	5645	LSR \$56
F995 6A	5650	ROR A
F996 6EA102	5655	ROR \$02A1
F999 4C8FF9	5660	JMP CONVR3
F99C C8	5665	CONVR4 INY
F99D 18	5670	CLC
F99E 6566	5675	ADC \$66
F9A0 8566	5680	STA \$66
F9A2 9002	5685	BCC CONVR5
F9A4 E667	5690	INC \$67
F9A6 38	5695	CONVR5 SEC
F9A7 6EA102	5700	CONVR6 ROR \$02A1
F9AA 18	5705	CLC
F9AB CA	5710	DEX
F9AC 10F9	5715	BPL CONVR6
F9AE AEA102	5720	LDX \$02A1
F9B1 A566	5725	LDA \$66
F9B3 18	5730	CLC
F9B4 6564	5735	ADC \$64
F9B6 8564	5740	STA \$64
F9B8 855E	5745	STA \$5E
F9BA A567	5750	LDA \$67
F9BC 6565	5755	ADC \$65
F9BE 8565	5760	STA \$65
F9C0 855F	5765	STA \$5F
F9C2 BDB5FE	5770	LDA DMASKT, X
F9C5 8DA002	5775	STA \$02A0
F9C8 856F	5780	STA \$6F
F9CA 68	5785	PLA

F9CB 8556	5790	STA \$56
F9CD 68	5795	PLA
F9CE 8555	5800	STA \$55
F9D0 68	5805	PLA
F9D1 8554	5810	STA \$54
F9D3 60	5815	RTS
F9D4 A900	5820	INCRSB LDA #0
F9D6 F002	5825	BEQ INCRSC
F9D8 A99B	5830	INCRSR LDA ##9B
F9DA 857D	5835	INCRSC STA \$7D
F9DC E663	5840	INCRSA INC \$63
F9DE E655	5845	INC \$55
F9E0 D002	5850	BNE INCSR2
F9E2 E656	5855	INC \$56
F9E4 A555	5860	INCSR2 LDA \$55
F9E6 A657	5865	LDX \$57
F9E8 DD85FE	5870	CMP COLUMN, X
F9EB F00B	5875	BEQ INC2A
F9ED E000	5880	CPX #0
F9EF D006	5885	BNE INCRS3
F9F1 C553	5890	CMP \$53
F9F3 F002	5895	BEQ INCRS3
F9F5 B001	5900	BCS INC2A
F9F7 60	5905	INCRS3 RTS
F9F8 E008	5910	INC2A CPX #8
F9FA 9004	5915	BCC DOCR1
F9FC A556	5920	LDA \$56
F9FE F0F7	5925	BEQ INCRS3
FA00 A557	5930	DOCR1 LDA \$57
FA02 D030	5935	BNE DOCR
FA04 A563	5940	LDA \$63
FA06 C951	5945	CMP #81
FA08 900A	5950	BCC DOCR1B
FA0A A57D	5955	LDA \$7D
FA0C F026	5960	BEQ DOCR
FA0E 2030FA	5965	JSR DOCRWS
FA11 4C77FA	5970	JMP INCRS1
FA14 2034FA	5975	DOCR1B JSR DOCR
FA17 A554	5980	LDA \$54
FA19 18	5985	CLC
FA1A 6978	5990	ADC #120
FA1C 2025FB	5995	JSR BITGET
FA1F 9008	6000	BCC DOCR1A
FA21 A57D	6005	LDA \$7D
FA23 F004	6010	BEQ DOCR1A
FA25 18	6015	CLC
FA26 20A5FB	6020	JSR INSLIA
FA29 4CD5FB	6025	DOCR1A JMP DOLCOL
FA2C A900	6030	NOSCR1 LDA #0
FA2E F002	6035	BEQ NOSCR1
FA30 A99B	6040	DOCRWS LDA ##9B
FA32 857D	6045	NOSCR1 STA \$7D
FA34 20FEF0	6050	DOCR JSR COLCR
FA37 A900	6055	LDA #0
FA39 8556	6060	STA \$56
FA3B E654	6065	INC \$54
FA3D A657	6070	DOCR2 LDX \$57
FA3F A018	6075	LDY #24
FA41 247B	6080	BIT \$7B
FA43 1005	6085	BPL DOCR2A
FA45 A004	6090	LDY #4

FA47 98	6095	TYA
FA48 D003	6100	BNE DOCR2B
FA4A BD95FE	6105	DOCR2A LDA NOROWS, X
FA4D C554	6110	DOCR2B CMP \$54
FA4F D026	6115	BNE INCRS1
FA51 8C9D02	6120	STY \$029D
FA54 8A	6125	TXA
FA55 D020	6130	BNE INCRS1
FA57 A57D	6135	LDA \$7D
FA59 F01C	6140	BEQ INCRS1
FA5B C99B	6145	CMP #\$9B
FA5D 38	6150	SEC
FA5E F001	6155	BEQ DOCR4B
FA60 18	6160	CLC
FA61 20ACFB	6165	DOCR4B JSR SCROLL
FA64 EEBB02	6170	INC \$02BB
FA67 C66C	6175	DEC \$6C
FA69 CE9D02	6180	DEC \$029D
FA6C ADB202	6185	LDA \$02B2
FA6F 38	6190	SEC
FA70 10EF	6195	BPL DOCR4B
FA72 AD9D02	6200	LDA \$029D
FA75 8554	6205	STA \$54
FA77 4CD5FB	6210	INCRS1 JMP DOLCOL
FA7A 38	6215	SUBEND SEC
FA7B B570	6220	LDA \$70, X
FA7D E574	6225	SBC \$74
FA7F 9570	6230	STA \$70, X
FA81 B571	6235	LDA \$71, X
FA83 E575	6240	SBC \$75
FA85 9571	6245	STA \$71, X
FA87 60	6250	RTS
FA88 ADBF02	6255	ERANGE LDA \$02BF
FA8B C904	6260	CMP #4
FABD F007	6265	BEQ RANGE
FA8F A557	6270	LDA \$57
FA91 F003	6275	BEQ RANGE
FA93 20FCF3	6280	JSR EOPEN
FA96 A927	6285	RANGE LDA #39
FA98 C553	6290	CMP \$53
FA9A B002	6295	BCS RANGE3
FA9C 8553	6300	STA \$53
FA9E A657	6305	RANGE3 LDX \$57
FAA0 BD95FE	6310	LDA NOROWS, X
FAA3 C554	6315	CMP \$54
FAA5 902A	6320	BCC RRGERR
FAA7 F028	6325	BEQ RRGERR
FAA9 E008	6330	CPX #8
FAAB D00A	6335	BNE RANGE1
FAAD A556	6340	LDA \$56
FAAF F013	6345	BEQ RRGOK
FAB1 C901	6350	CMP #1
FAB3 D01C	6355	BNE RRGERR
FAB5 F004	6360	BEQ RANGE2
FAB7 A556	6365	RANGE1 LDA \$56
FAB9 D016	6370	BNE RRGERR
FABB BD85FE	6375	RANGE2 LDA COLUMN, X
FABE C555	6380	CMP \$55
FAC0 900F	6385	BCC RRGERR
FAC2 F00D	6390	BEQ RRGERR
FAC4 A901	6395	RRGOK LDA #1

FAC6 854C	6400	STA \$4C
FAC8 A980	6405	LDA ##80
FACA A611	6410	LDX \$11
FACC 8511	6415	STA \$11
FACE F006	6420	BEQ RNGER2
FAD0 60	6425	RTS
FAD1 20D6F7	6430	RNGERR JSR HOME
FAD4 A98D	6435	LDA ##8D
FAD6 854C	6440	RNGER2 STA \$4C
FAD8 68	6445	RNGER1 PLA
FAD9 68	6450	PLA
FADA A57B	6455	LDA \$7B
FADC 1003	6460	BFL RETUR3
FADE 20A1FC	6465	JSR SWAPA
FAE1 4C34F6	6470	RETUR3 JMP RETUR1
FAE4 A000	6475	OFFCRS LDY #0
FAE6 A55D	6480	LDA \$5D
FAE8 915E	6485	STA (\$5E),Y
FAEA 60	6490	RTS
FAEB 48	6495	BITCON PHA
FAEC 2907	6500	AND #7
FAEE AA	6505	TAX
FAEF BDBDFE	6510	LDA MASKTB,, X
FAF2 856E	6515	STA \$6E
FAF4 68	6520	PLA
FAF5 4A	6525	LSR A
FAF6 4A	6530	LSR A
FAF7 4A	6535	LSR A
FAF8 AA	6540	TAX
FAF9 60	6545	RTS
FAFA 2EB402	6550	BITROL ROL \$02B4
FAFD 2EB302	6555	ROL \$02B3
FB00 2EB202	6560	ROL \$02B2
FB03 60	6565	RTS
FB04 900C	6570	BITPUT BCC BITCLR
FB06 20EBFA	6575	BITSET JSR BITCON
FB09 BDA302	6580	LDA \$02A3,X
FB0C 056E	6585	ORA \$6E
FB0E 9DA302	6590	STA \$02A3, X
FB11 60	6595	RTS
FB12 20EBFA	6600	BITCLR JSR BITCON
FB15 A56E	6605	LDA \$6E
FB17 49FF	6610	EOR ##FF
FB19 3DA302	6615	AND \$02A3, X
FB1C 9DA302	6620	STA \$02A3, X
FB1F 60	6625	RTS
FB20 A554	6630	LOGGET LDA \$54
FB22 18	6635	LO1GET CLC
FB23 6978	6640	LO2GET ADC #120
FB25 20EBFA	6645	BITGET JSR BITCON
FB28 18	6650	CLC
FB29 BDA302	6655	LDA \$02A3, X
FB2C 256E	6660	AND \$6E
FB2E F001	6665	BEQ BITGE1
FB30 38	6670	SEC
FB31 60	6675	BITGE1 RTS
FB32 ADFA02	6680	INATAC LDA \$02FA
FB35 A457	6685	LDY \$57
FB37 C003	6690	CPY #3
FB39 B00F	6695	BCS INATA1
FB3B 2A	6700	ROL A

FB3C 2A	6705	ROL A
FB3D 2A	6710	ROL A
FB3E 2A	6715	ROL A
FB3F 2903	6720	AND #3
FB41 AA	6725	TAX
FB42 ADFA02	6730	LDA \$02FA
FB45 299F	6735	AND #\$9F
FB47 1DF4FF	6740	ORA INTATA,X
FB4A BDFB02	6745	INATA1 STA \$02FB
FB4D 60	6750	RTS
FB4E A902	6755	MOVLIN LDA #2
FB50 8565	6760	STA \$65
FB52 A947	6765	LDA #\$47
FB54 8564	6770	STA \$64
FB56 A027	6775	LDY #39
FB58 B166	6780	MOVLI1 LDA (\$66),Y
FB5A 8550	6785	STA \$50
FB5C B168	6790	LDA (\$68),Y
FB5E 9166	6795	STA (\$66),Y
FB60 A550	6800	LDA \$50
FB62 9164	6805	STA (\$64),Y
FB64 88	6810	DEY
FB65 10F1	6815	BPL MOVLI1
FB67 A565	6820	LDA \$65
FB69 8569	6825	STA \$69
FB6B A564	6830	LDA \$64
FB6D 8568	6835	STA \$68
FB6F 18	6840	CLC
FB70 A566	6845	LDA \$66
FB72 6928	6850	ADC #40
FB74 8566	6855	STA \$66
FB76 9002	6860	BCC MOVLI2
FB78 E667	6865	INC \$67
FB7A 60	6870	MOVLI2 RTS
FB7B 08	6875	EXTEND PHP
FB7C A017	6880	LDY #23
FB7E 98	6885	EXTEN1 TYA
FB7F 2022FB	6890	JSR L01GET
FB82 08	6895	PHP
FB83 98	6900	TYA
FB84 18	6905	CLC
FB85 6979	6910	ADC #121
FB87 28	6915	PLP
FB88 2004FB	6920	JSR BITPUT
FB8B 88	6925	EXTEN3 DEY
FB8C 3004	6930	BMI EXTEN4
FB8E C454	6935	CPY \$54
FB90 B0EC	6940	BCS EXTEN1
FB92 A554	6945	EXTEN4 LDA \$54
FB94 18	6950	CLC
FB95 6978	6955	ADC #120
FB97 28	6960	PLP
FB98 4C04FB	6965	JMP BITPUT
FB9B A552	6970	CLRLIN LDA \$52
FB9D 8555	6975	STA \$55
FB9F 2047F9	6980	JSR CONVRT
FBA2 A027	6985	LDY #39
FBA4 A900	6990	LDA #0
FBA6 9164	6995	CLRLI1 STA (\$64),Y
FBA8 88	7000	DEY
FBA9 10FB	7005	BPL CLRLI1

FBAB 60	7010	RTS
FBAC 20FAFA	7015	SCROLL JSR BITROL
FBAF 20D4FC	7020	JSR PUTMSC
FBB2 A028	7025	SCROLL1 LDY #40
FBB4 B164	7030	LDA (\$64), Y
FBB6 A66A	7035	LDX \$6A
FBB8 CA	7040	DEX
FBB9 E465	7045	CPX \$65
FBBB D008	7050	BNE SCROLL2
FBBD A2D7	7055	LDX #\$D7
FBBF E464	7060	CPX \$64
FBC1 B002	7065	BCS SCROLL2
FBC3 A900	7070	LDA #0
FBC5 A000	7075	SCROLL2 LDY #0
FBC7 9164	7080	STA (\$64), Y
FBC9 E664	7085	INC \$64
FBCB D0E5	7090	BNE SCROLL1
FBCD E665	7095	INC \$65
FBCF A565	7100	LDA \$65
FBD1 C56A	7105	CMP \$6A
FBD3 D0DD	7110	BNE SCROLL1
FBD5 A900	7115	DOLCOL LDA #0
FBD7 8563	7120	STA \$63
FBD9 A554	7125	LDA \$54
FBDB 8551	7130	STA \$51
FBDD A551	7135	DOLCO1 LDA \$51
FBDF 2022FB	7140	JSR LQ1GET
FBE2 B00C	7145	BCS DOLCO2
FBE4 A563	7150	LDA \$63
FBE6 18	7155	CLC
FBE7 6928	7160	ADC #40
FBE9 8563	7165	STA \$63
FBEB C651	7170	DEC \$51
FBED 4CDDFB	7175	JMP DOLCO1
FBF0 18	7180	DOLCO2 CLC
FBF1 A563	7185	LDA \$63
FBF3 6555	7190	ADC \$55
FBF5 8563	7195	STA \$63
FBF7 60	7200	RTS
FBF8 2085FC	7205	DOBUF1 JSR PHACRS
FBFB A563	7210	LDA \$63
FBFD 48	7215	PHA
FBFE A56C	7220	LDA \$6C
FC00 8554	7225	STA \$54
FC02 A56D	7230	LDA \$6D
FC04 8555	7235	STA \$55
FC06 A901	7240	LDA #1
FC08 856B	7245	STA \$6B
FC0A A217	7250	DOBUF1 LDX #23
FC0C A57B	7255	LDA \$7B
FC0E 1002	7260	BPL DOB1
FC10 A203	7265	LDX #3
FC12 E454	7270	DOB1 CPX \$54
FC14 D00B	7275	BNE DOBU1A
FC16 A555	7280	LDA \$55
FC18 C553	7285	CMP \$53
FC1A D005	7290	BNE DOBU1A
FC1C E66B	7295	INC \$6B
FC1E 4C31FC	7300	JMP DOBUF2
FC21 20D4F9	7305	DOBU1A JSR INCRSB
FC24 E66B	7310	INC \$6B

FC26 A563	7315	LDA \$63
FC28 C552	7320	CMP \$52
FC2A D0DE	7325	BNE DOBUF1
FC2C C654	7330	DEC \$54
FC2E 2099F7	7335	JSR CRSRLF
FC31 20A2F5	7340	DOBUF2 JSR GETPLT
FC34 D017	7345	BNE DOBUF4
FC36 C66B	7350	DEC \$6B
FC38 A563	7355	LDA \$63
FC3A C552	7360	CMP \$52
FC3C F00F	7365	BEQ DOBUF4
FC3E 2099F7	7370	JSR CRSRLF
FC41 A555	7375	LDA \$55
FC43 C553	7380	CMP \$53
FC45 D002	7385	BNE DOBUF3
FC47 C654	7390	DEC \$54
FC49 A56B	7395	DOBUF3 LDA \$6B
FC4B D0E4	7400	BNE DOBUF2
FC4D 68	7405	DOBUF4 PLA
FC4E 8563	7410	STA \$63
FC50 2090FC	7415	JSR PLACRS
FC53 60	7420	RTS
FC54 20D5FB	7425	STRBEG JSR DOLCOL
FC57 A551	7430	LDA \$51
FC59 856C	7435	STA \$6C
FC5B A552	7440	LDA \$52
FC5D 856D	7445	STA \$6D
FC5F 60	7450	RTS
FC60 A563	7455	DELTIA LDA \$63
FC62 C552	7460	CMP \$52
FC64 D002	7465	BNE DELTIB
FC66 C654	7470	DEC \$54
FC68 20D5FB	7475	DELTIB JSR DOLCOL
FC6B A563	7480	DELTIM LDA \$63
FC6D C552	7485	CMP \$52
FC6F F013	7490	BEQ DELTI3
FC71 2047F9	7495	JSR CONVRT
FC74 A553	7500	LDA \$53
FC76 38	7505	SEC
FC77 E552	7510	SBC \$52
FC79 A8	7515	TAY
FC7A B164	7520	DELTII1 LDA (\$64),Y
FC7C D006	7525	BNE DELTI3
FC7E 88	7530	DEY
FC7F 10F9	7535	BPL DELTI1
FC81 4CDBF8	7540	DELTII2 JMP DELLIB
FC84 60	7545	DELTII3 RTS
FC85 A202	7550	PHACRS LDX #2
FC87 B554	7555	PHACR1 LDA \$54,X
FC89 9DB802	7560	STA \$02B8,X
FC8C CA	7565	DEX
FC8D 10F8	7570	BPL PHACR1
FC8F 60	7575	RTS
FC90 A202	7580	PLACRS LDX #2
FC92 BDB802	7585	PLACR1 LDA \$02B8,X
FC95 9554	7590	STA \$54,X
FC97 CA	7595	DEX
FC98 10F8	7600	BPL PLACR1
FC9A 60	7605	RTS
FC9B 20A1FC	7610	SWAP JSR SWAPA
FC9E 4C34F6	7615	JMP RETUR1

FCA1	ADBF02	7620	SWAPA LDA \$02BF
FCA4	C918	7625	CMP #24
FCA6	F017	7630	BEG SWAP3
FCA8	A20B	7635	LDX #11
FCAA	B554	7640	SWAP1 LDA \$54,X
FCAC	48	7645	PHA
FCAD	BD9002	7650	LDA \$0290,X
FCB0	9554	7655	STA \$54,X
FCB2	68	7660	PLA
FCB3	9D9002	7665	STA \$0290,X
FCB6	CA	7670	DEX
FCB7	10F1	7675	BPL SWAP1
FCB9	A57B	7680	LDA \$7B
FCBB	49FF	7685	EOR #\$FF
FCBD	857B	7690	STA \$7B
FCBF	60	7695	SWAP3 RTS
FCC0	A54B	7700	GETSEC LDA \$4B
FCC2	F003	7705	BEG DISKM
FCC4	4C7AE4	7710	JMP \$E47A
FCC7	A952	7715	DISKM LDA #\$52
FCC9	8D0203	7720	STA \$0302
FCCC	A901	7725	LDA #1
FCCE	8D0103	7730	STA \$0301
FCD1	4C53E4	7735	JMP \$E453
FCD4	A558	7740	PUTMSC LDA \$58
FCD6	8564	7745	STA \$64
FCD8	A559	7750	LDA \$59
FCDA	8565	7755	STA \$65
FCDC	60	7760	RTS
FCDD	A200	7765	DRAW LDX #0
FCDF	A522	7770	LDA \$22
FCE1	C911	7775	CMP #\$11
FCE3	F008	7780	BEG DRAWA
FCE5	C912	7785	CMP #\$12
FCE7	F003	7790	BEG DRAWB
FCE9	A084	7795	LDY #\$84
FCEB	60	7800	RTS
FCEC	E8	7805	DRAWB INX
FCED	8EB702	7810	DRAWA STX \$02E7
FCF0	A554	7815	LDA \$54
FCF2	8560	7820	STA \$60
FCF4	A555	7825	LDA \$55
FCF6	8561	7830	STA \$61
FCF8	A556	7835	LDA \$56
FCFA	8562	7840	STA \$62
FCFC	A901	7845	LDA #1
FCFE	8579	7850	STA \$79
FD00	857A	7855	STA \$7A
FD02	38	7860	SEC
FD03	A560	7865	LDA \$60
FD05	E55A	7870	SBC \$5A
FD07	8576	7875	STA \$76
FD09	B00D	7880	BCS DRAW1
FD0B	A9FF	7885	LDA #\$FF
FD0D	8579	7890	STA \$79
FD0F	A576	7895	LDA \$76
FD11	49FF	7900	EOR #\$FF
FD13	18	7905	CLC
FD14	6901	7910	ADC #1
FD16	8576	7915	STA \$76
FD18	38	7920	DRAW1 SEC

FD19	A561	7925	LDA \$61
FD1B	E55B	7930	SBC \$5B
FD1D	8577	7935	STA \$77
FD1F	A562	7940	LDA \$62
FD21	E55C	7945	SBC \$5C
FD23	8578	7950	STA \$78
FD25	B016	7955	BCS DRAW2
FD27	A9FF	7960	LDA #\$FF
FD29	857A	7965	STA \$7A
FD2B	A577	7970	LDA \$77
FD2D	49FF	7975	EOR #\$FF
FD2F	8577	7980	STA \$77
FD31	A578	7985	LDA \$78
FD33	49FF	7990	EOR #\$FF
FD35	8578	7995	STA \$78
FD37	E677	8000	INC \$77
FD39	D002	8005	BNE DRAW2
FD3B	E678	8010	INC \$78
FD3D	A202	8015	DRAW2 LDX #2
FD3F	A000	8020	LDY #0
FD41	8473	8025	STY \$73
FD43	98	8030	DRAW3A TYA
FD44	9570	8035	STA \$70, X
FD46	B55A	8040	LDA \$5A, X
FD48	9554	8045	STA \$54, X
FD4A	CA	8050	DEX
FD4B	10F6	8055	BPL DRAW3A
FD4D	A577	8060	LDA \$77
FD4F	E8	8065	INX
FD50	A8	8070	TAY
FD51	A578	8075	LDA \$78
FD53	857F	8080	STA \$7F
FD55	8575	8085	STA \$75
FD57	D00A	8090	BNE DRAW3
FD59	A577	8095	LDA \$77
FD5B	C576	8100	CMP \$76
FD5D	B004	8105	BCS DRAW3
FD5F	A476	8110	LDY \$76
FD61	A202	8115	LDX #2
FD63	98	8120	DRAW3 TYA
FD64	857E	8125	STA \$7E
FD66	8574	8130	STA \$74
FD68	48	8135	PHA
FD69	A575	8140	LDA \$75
FD6B	4A	8145	LSR A
FD6C	68	8150	PLA
FD6D	6A	8155	ROR A
FD6E	9570	8160	STA \$70, X
FD70	A57E	8165	DRAW4A LDA \$7E
FD72	057F	8170	ORA \$7F
FD74	D003	8175	BNE DRAW11
FD76	4C22FE	8180	JMP DRAW10
FD79	18	8185	DRAW11 CLC
FD7A	A570	8190	LDA \$70
FD7C	6576	8195	ADC \$76
FD7E	8570	8200	STA \$70
FD80	9002	8205	BCC DRAW5
FD82	E671	8210	INC \$71
FD84	A571	8215	DRAW5 LDA \$71
FD86	C575	8220	CMP \$75
FD88	9014	8225	BCC DRAW6

FDBA D006	8230	BNE DRAW5A
FD8C A570	8235	LDA \$70
FD8E C574	8240	CMP \$74
FD90 900C	8245	BCC DRAW6
FD92 18	8250	DRAW5A CLC
FD93 A554	8255	LDA \$54
FD95 6579	8260	ADC \$79
FD97 8554	8265	STA \$54
FD99 A200	8270	LDX #0
FD9B 207AFA	8275	JSR SUBEND
FD9E 18	8280	DRAW6 CLC
FD9F A572	8285	LDA \$72
FDA1 6577	8290	ADC \$77
FDA3 8572	8295	STA \$72
FDA5 A573	8300	LDA \$73
FDA7 6578	8305	ADC \$78
FDA9 8573	8310	STA \$73
FDAB C575	8315	CMP \$75
FDAD 9027	8320	BCC DRAW8
FDAF D006	8325	BNE DRAW6A
FDB1 A572	8330	LDA \$72
FDB3 C574	8335	CMP \$74
FDB5 901F	8340	BCC DRAW8
FDB7 247A	8345	DRAW6A BIT \$7A
FDB9 1010	8350	BPL DRAW6B
FDBB C655	8355	DEC \$55
FDBD A555	8360	LDA \$55
FDBF C9FF	8365	CMP #\$FF
FDC1 D00E	8370	BNE DRAW7
FDC3 A556	8375	LDA \$56
FDC5 F00A	8380	BEQ DRAW7
FDC7 C656	8385	DEC \$56
FDC9 1006	8390	BPL DRAW7
FDCB E655	8395	DRAW6B INC \$55
FDCD D002	8400	BNE DRAW7
FDCF E656	8405	INC \$56
FDD1 A202	8410	DRAW7 LDX #2
FDD3 207AFA	8415	JSR SUBEND
FDD6 2096FA	8420	DRAW8 JSR RANGE
FDD9 20E0F5	8425	JSR OUTPLT
FDDC ADB702	8430	LDA \$02B7
FDDF F02F	8435	BEQ DRAW9
FDE1 2085FC	8440	JSR PHACRS
FDE4 ADFB02	8445	LDA \$02FB
FDE7 8DBC02	8450	STA \$02BC
FDEA A554	8455	DRAW8A LDA \$54
FDEC 48	8460	PHA
FDED 20DCF9	8465	JSR INCRSA
FDF0 68	8470	PLA
FDF1 8554	8475	STA \$54
FDF3 2096FA	8480	DRAW8C JSR RANGE
FDF6 20A2F5	8485	JSR GETPLT
FDF9 D00C	8490	BNE DRAW8B
FDFB ADFD02	8495	LDA \$02FD
FDFE 8DFB02	8500	STA \$02FB
FE01 20E0F5	8505	JSR OUTPLT
FE04 4CEAFD	8510	JMP DRAW8A
FE07 ADBC02	8515	DRAW8B LDA \$02BC
FE0A 8DFB02	8520	STA \$02FB
FE0D 2090FC	8525	JSR PLACRS
FE10 38	8530	DRAW9 SEC

FE11 A57E	8535	LDA \$7E
FE13 E901	8540	SBC #1
FE15 857E	8545	STA \$7E
FE17 A57F	8550	LDA \$7F
FE19 E900	8555	SBC #0
FE1B 857F	8560	STA \$7F
FE1D 3003	8565	BMI DRAW10
FE1F 4C70FD	8570	JMP DRAW4A
FE22 4C34F6	8575	DRAW10 JMP RETUR1
FE25 18100A0A	8580	ALOCAT .BYTE 24,16,10,10,16,28,52,100,196,196,196,196
FE29 101C3464		
FE2D C4C4C4C4		
FE31 1C1064C4	8585	.BYTE 28,16,100,196
FE35 17170B17	8590	NUMDLE .BYTE 23,23,11,23,47,47,95,95,97,97,97,97
FE39 2F2F5F5F		
FE3D 61616161		
FE41 170BBF61	8595	.BYTE 23,11,191,97
FE45 13130913	8600	MXDMDE .BYTE 19,19,9,19,39,39,79,79,65,65,65,65
FE49 27274F4F		
FE4D 41414141		
FE51 13099F41	8605	.BYTE 19,9,159,65
FE55 02060708	8610	ANCONV .BYTE 2,6,7,8,9,10,11,13,15,15,15,15
FE59 090A0B0D		
FE5D 0F0F0F0F		
FE61 04050C0E	8615	.BYTE 4,5,12,14
FE65 00000000	8620	PAGETB .BYTE 0,0,0,0,0,0,0,0,1,1,1,1,1
FE69 00000001		
FE6D 01010101		
FE71 00000101	8625	.BYTE 0,0,1,1
FE75 02010100	8630	DHLINE .BYTE 2,1,1,0,0,1,1,2,2,2,2,2
FE79 00010102		
FE7D 02020202		
FE81 02020102	8635	.BYTE 2,2,1,2
FE85 28141428	8640	COLUMN .BYTE 40,20,20,40,80,80,160,160,64,80,80,80
FE89 5050A0A0		
FE8D 40505050		
FE91 2828A0A0	8645	.BYTE 40,40,160,160
FE95 18180C18	8650	NOROWS .BYTE 24,24,12,24,48,48,96,96,192,192,192,192
FE99 30306060		
FE9D C0C0C0C0		
FEA1 180CC0C0	8655	.BYTE 24,12,192,192
FEA5 00000002	8660	DIV2TB .BYTE 0,0,0,2,3,2,3,2,3,1,1,1
FEA9 03020302		
FEAD 03010101		
FEB1 00000302	8665	.BYTE 0,0,3,2
FEB5 00FFFF00F	8670	DMASKT .BYTE 0,\$FF,\$F0,\$0F,\$C0,\$30,\$0C,3
FEB9 C0300C03		
FEBD 80402010	8675	MASKTB .BYTE \$80,\$40,\$20,\$10,8,4,2,1,0,1,3,7
FEC1 08040201		
FEC5 00010307		
FEC9 28CAB246	8680	COLRTB .BYTE \$28,\$CA,\$B2,\$46,0
FECD 00		
FECE 1B	8685	CNTRLS .BYTE \$1B
FECF 79F7	8690	.WORD ESCAPE
FED1 1C	8695	.BYTE \$1C
FED2 7FF7	8700	.WORD CRSRUP
FED4 1D	8705	.BYTE \$1D
FED5 8CF7	8710	.WORD CRSRDN
FED7 1E	8715	.BYTE \$1E
FED8 99F7	8720	.WORD CRSRLF
FEDA 1F	8725	.BYTE \$1F

FEDB	AAF7	8730	.WORD	CRSRRT
FEDD	7D	8735	.BYTE	\$7D
FEDE	B9F7	8740	.WORD	CLRSCR
FEE0	7E	8745	.BYTE	\$7E
FEE1	E6F7	8750	.WORD	BS
FEE3	7F	8755	.BYTE	\$7F
FEE4	10F8	8760	.WORD	TAB
FEE6	9B	8765	.BYTE	\$9B
FEE7	30FA	8770	.WORD	DOCRWS
FEE9	9C	8775	.BYTE	\$9C
FEEA	D4F8	8780	.WORD	DELLIN
FEED	9D	8785	.BYTE	\$9D
FEED	A4F8	8790	.WORD	INSLIN
FEEF	9E	8795	.BYTE	\$9E
FEF0	32F8	8800	.WORD	CLRTAB
FEF2	9F	8805	.BYTE	\$9F
FEF3	2DF8	8810	.WORD	SETTAB
FEF5	FD	8815	.BYTE	\$FD
FEF6	0AF9	8820	.WORD	BELL
FEF8	FE	8825	.BYTE	\$FE
FEF9	6DF8	8830	.WORD	DELCHR
FEFB	FF	8835	.BYTE	\$FF
FEFC	37F8	8840	.WORD	INSCHR
FEFE	6C6A3B80	8845	ATASCII	.BYTE \$6C,\$6A,\$3B,\$80,\$80,\$6B,\$2B,\$2A
FF02	806B2B2A			
FF06	6F807075	8850	.BYTE	\$6F,\$80,\$70,\$75,\$9B,\$69,\$2D,\$3D
FF0A	9B692D3D			
FF0E	76806380	8855	.BYTE	\$76,\$80,\$63,\$80,\$80,\$62,\$78,\$7A
FF12	8062787A			
FF16	34803336	8860	.BYTE	\$34,\$80,\$33,\$36,\$1B,\$35,\$32,\$31
FF1A	1B353231			
FF1E	2C202E6E	8865	.BYTE	\$2C,\$20,\$2E,\$6E,\$80,\$6D,\$2F,\$81
FF22	806D2F81			
FF26	72806579	8870	.BYTE	\$72,\$80,\$65,\$79,\$7F,\$74,\$77,\$71
FF2A	7F747771			
FF2E	39803037	8875	.BYTE	\$39,\$80,\$30,\$37,\$7E,\$38,\$3C,\$3E
FF32	7E383C3E			
FF36	66686480	8880	.BYTE	\$66,\$68,\$64,\$80,\$82,\$67,\$73,\$61
FF3A	82677361			
FF3E	4C4A3A80	8885	.BYTE	\$4C,\$4A,\$3A,\$80,\$80,\$4B,\$5C,\$5E
FF42	804B5C5E			
FF46	4F805055	8890	.BYTE	\$4F,\$80,\$50,\$55,\$9B,\$49,\$5F,\$7C
FF4A	9B495F7C			
FF4E	56804380	8895	.BYTE	\$56,\$80,\$43,\$80,\$80,\$42,\$58,\$5A
FF52	8042585A			
FF56	24802326	8900	.BYTE	\$24,\$80,\$23,\$26,\$1B,\$25,\$22,\$21
FF5A	1B252221			
FF5E	5B205D4E	8905	.BYTE	\$5B,\$20,\$5D,\$4E,\$80,\$4D,\$3F,\$81
FF62	804D3F81			
FF66	52804559	8910	.BYTE	\$52,\$80,\$45,\$59,\$9F,\$54,\$57,\$51
FF6A	9F545751			
FF6E	28802927	8915	.BYTE	\$28,\$80,\$29,\$27,\$9C,\$40,\$7D,\$9D
FF72	9C407D9D			
FF76	46484480	8920	.BYTE	\$46,\$48,\$44,\$80,\$83,\$47,\$53,\$41
FF7A	83475341			
FF7E	0C0A7B80	8925	.BYTE	\$0C,\$0A,\$7B,\$80,\$80,\$0B,\$1E,\$1F
FF82	800B1E1F			
FF86	0F801015	8930	.BYTE	\$0F,\$80,\$10,\$15,\$9B,\$09,\$1C,\$1D
FF8A	9B091C1D			
FF8E	16800380	8935	.BYTE	\$16,\$80,\$03,\$80,\$80,\$02,\$18,\$1A
FF92	8002181A			

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FF96 80808580      8940      .BYTE $80,$80,$85,$80,$1B,$80,$FD,$80
FF9A 1B80FD80
FF9E 0020600E      8945      .BYTE $00,$20,$60,$0E,$80,$0D,$80,$81
FFA2 800D8081
FFA6 12800519      8950      .BYTE $12,$80,$05,$19,$9E,$14,$17,$11
FFAA 9E141711
FFAE 80808080      8955      .BYTE $80,$80,$80,$80,$FE,$80,$7D,$FF
FFB2 FEB07DFF
FFB6 06080480      8960      .BYTE $06,$08,$04,$80,$84,$07,$13,$01
FFBA 84071301
FFBE AD09D2      8965 PIRQ5 LDA $D209
FFC1 CDF202      8970      CMP $02F2
FFC4 D005      8975      BNE PIRQ3
FFC6 ADF102      8980      LDA $02F1
FFC9 D01E      8985      BNE PIRQ4
FFCB AD09D2      8990 PIRQ3 LDA $D209
FFCE C99F      8995      CMP #$9F
FFD0 D00A      9000      BNE PIRQ1
FFD2 ADFF02      9005      LDA $02FF
FFD5 49FF      9010      EOR #$FF
FFD7 8DFF02      9015      STA $02FF
FFDA B00D      9020      BCS PIRQ4
FFDC 8DFC02      9025 PIRQ1 STA $02FC
FFDF 8DF202      9030      STA $02F2
FFE2 A901      9035      LDA #1
FFE4 8DF102      9040      STA $02F1
FFE7 854D      9045      STA $4D
FFE9 A910      9050 PIRQ4 LDA #$10
FFEB 8D2B02      9055      STA $022B
FFEE 68      9060 PIRQ2 PLA
FFEF 40      9065      RTI
FFF0 40002060      9070 ATAIN .BYTE $40,0,$20,$60
FFF4 20400060      9075 INTATA .BYTE $20,$40,0,$60
FFF8 F3E61CE9      9080      .BYTE $F3,$E6,$1C,$E9,$35,$E9,$F3,$E6
FFFC 35E9F3E6
0000      9999      .END      ;

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